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CONSOLIDATED TRANSLATION SURVEY

Number 112

For April 1967

CENTRAL INTELLIGENCE AGENCY
Washington, D. C. 20505

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CONSOLIDATED TRANSLATION SURVEY

FOR APRIL 1967

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly from lists received through the cooperation of US government agencies and includes universities, research institutions, and commercial translation organizations. It is a compilation of projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

Scientific and technical translations are grouped according to the COSATI subject category list except for military science and ordnance items which are listed under "military" in the appropriate geographic areas.

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ACIC - Aeronautical Chart and Information Center
(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AECL

Atomic Energy of Canada, Ltd.
Chalk River
Ontario, Canada

AERE Harwell Lib

Atomic Energy Research Establishment,
Harwell, Berkshire

AF

Department of Air Force
Assistant Chief of Staff, Intelligence
ATTN: AFCIN-3D
Washington 25, D.C.

AFCRL Res Lib

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMCLR

AGI

American Geological Institute
AGI Translations Office
2101 Constitution Avenue, NW
Washington, D. C. 20000

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington, D.C. 20005

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Army Materiel Command

U.S. Army Foreign Science and Technology Center
Arlington Hall Station
ATTN: AMXST-SD-TD
Washington 25, D.C.

ANL - Argonne National Laboratory, Illinois
(see AEC)

ATD - Aerospace Technology Division (see Library
of Congress)

ATS

Associated Technical Services, Incorporated
P.O. Box 271
East Orange, New Jersey 07017

BCIRA

British Cast Iron Research Association
Bordesley Hall
Alvechurch, Birmingham
England

BISI

British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S.W. 1, England

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and
Technical Information (Formerly Office of
Technical Services)
Port Royal and Braddock Roads
Springfield, Virginia 22151

CRL

Central Research Laboratories, Research Division
Broken Hill Proprietary Company, Ltd,
Shortland, 2N, New South Wales,
Australia

CSIR

South African Council for Scientific and
Industrial Research
P. O. Box 395,
Pretoria, South Africa

CTS

Chemical Translation Service
Trans-Chem, Inc.,
Box 6179
Knoxville, Tennessee 37914

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DDC RSIC - Defense Documentation Center, Redstone
Scientific Information Center
(see CFSTI)

DIA

Defense Intelligence Agency
Washington, D.C. 20301

ETC

European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FP Inc.

The Faraday Press, Incorporated
84 Fifth Avenue
New York, New York 10011

FTD - Foreign Technology Division (see AF)

Geochem Soc

Prof. E. Wm. Heinrich
Mineralogical Laboratory
University of Michigan
Ann Arbor, Michigan

HB

Henry Bratcher Technical Translations
P. O. Box 157
Altadena, California 91001

HEW - See NIH

ISA

Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

JPRS

U. S. Department of Commerce
Clearinghouse for Federal Scientific
and Technical Information
Joint Publications Research Service
Building Tempo E,
East Adams Drive, 4th & 6th Streets, SW
Washington, D.C. 20443

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington, D.C. 20546

Navy

Department of Navy
Office of Naval Intelligence
Washington, 25, D.C.

NIH

Circulation Unit
Readers Services Section
Library Branch, DRS
National Institutes of Health
Building 10, Room 5N118
Bethesda, Maryland 20014

NLL

National Lending Library
For Science & Technology
Boston Spa, Yorkshire, England

NRL - Naval Research Laboratories (see Navy)

NSJ - (See AEC)

NSTIC - Naval Sci and Tech Intell Ctr

Ministry of Defence,
Room 102, Station Square House,
St. Mary Cray, Orpington, Kent.
England

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

OTS - (see CFSTI)

Patent Office

Department of Commerce, Patent Office
Scientific Library
14th and Constitution Avenue, NW
Washington, D.C.

PG

Petroleum Geology
Box 171
McLean, Virginia

Plenum Press

Plenum Press, Incorporated
227 West 17th Street
New York, New York 10011

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

Rand Corp

Rand Corporation
ATTN: Publications Office
1700 Main Street
Santa Monica, California

RSIC - (see DDC/RSIC)

RTS - (see OTS)

SLA

SLA Translation Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

SLAC - Stanford Linear Accelerator Center - (see AEC)

UCRL

University of California
Lawrence Radiation Laboratory,
Livermore, California
(see AEC)

USSR

Economic

Development of Methods and Means of Bookkeeping Projected by Five-Year Plan, 5 pp.
RUSSIAN, per, Bukhgalterskiy Uchet, No. 1, Jan 1967, pp. 3-6.
JPRS 40212

Analyzing Profit Plan Fulfillment in Oil Refining, by V. Uglov, 7 pp.
RUSSIAN, per, Bukhgalterskiy uchet, No. 1, Jan 1967, pp. 20-25.
JPRS 40212

Cybernetics in Economics -- On One Iterative Method of Solving Problems of Integral Programming, by I. I. Pyatetskiy-Shapiro, V. A. Volkonskiy, V. L. Levina, and A. Pomanskiy, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol. 169, No. 6, 1966, pp. 1289-1292
JPRS 40084

Plans for Building Up Small Cities Through Industry Discussed, by Vasilii Selyunin, 8 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 3, Jan 1967, pp. 29-30.
JPRS 40089

Greater Role Urged for Local Soviets in Industrial Planning, by V. Petrushko, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 3, Jan 1967, p. 31.
JPRS 40089

New Canal Planned between the Dnepr and Donbass, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 3, Jan 1967, p. 39.
JPRS 40089

Regulations Established for Reimbursement of Business Trip Expenses, 6 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No. 5, Jan 1967, p. 42.
JPRS 40241

Local Industry Must Produce More Goods of Higher Quality, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 6, Feb 1967, p. 3.
JPRS 40271

USSR
Economic (Contd)

Meeting of Interdepartmental Commission in Khar'kov Discusses Experiences of Reformed Enterprises, by N. Gubenkov and G. Emdin, 11 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 6, Feb 1967, pp. 16-17.
JPRS 40271

How to Stimulate Inventive Creativity, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 7, Feb 1967, pp. 20-21.
JPRS 40367

The Saratov System in USSR Industry, by Ya. Sorin, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 7, Feb 1967, pp. 21-22.
JPRS 40367

Readers' Comments on State Insurance of Kolkhozes and Sovkhozes, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 10, Mar 1967, pp. 33,36.
JPRS 40415

The Dynamics of Soviet National Income and Its Basic Components, by Alb. L. Vaynsteyn, 20 pp.
RUSSIAN, per, Ekonomika i matematicheskoye metody, No. 1, Jan-Feb 1967, pp. 15-28.
JPRS 40206

The Calculation and Payment of Turnover Tax on Commodities Established, by V. Volodikhin, 9 pp.
RUSSIAN, per, Finansy, No. 7, July 1966, pp. 80-83.
JPRS 40244

The Budget in the Anniversary Year, by V. Garbuzov, 27 pp.
RUSSIAN, per, Finansy SSSR, No. 1, Jan 1967, pp. 3-20.
JPRS 40089

New Methods of Economic Planning Widely Adopted in Trade, by Ye. Fonarev, 10 pp.
RUSSIAN, per, Finansy SSSR, No. 1, Jan 1967, pp. 21-27.
JPRS 40244

Pressing Problems in Economic Reform, by N. Garetskiy, 14 pp.
RUSSIAN, per, Finansy SSSR, No. 1, Jan 1967, pp. 31-39.
JPRS 40089

USSR
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Operation of Soviet Financial Organs in 1967, 8 pp.
RUSSIAN, per, Finansy SSSR, No. 2, pp. 3-7.
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Functioning of the Soviet State Insurance System, by L. Motylev, 11 pp.
RUSSIAN, per, Finansy SSSR, No. 2, 1967, pp. 17-24.
JPRS 40434

Operation of Enterprises of the Local Industry, by S. Kheyfets, 8 pp.
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Elimination of Important Distinctions between Town and Country and the Role of Finances in the Resolution of this Problem, by V. Semenov, 18 pp.
RUSSIAN, per, Finansy SSSR, No. 2, 1967, pp. 30-42.
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Methods of Raising the Effectiveness of Material Incentives, by Yu. Artemov, 8 pp.
RUSSIAN, per, Finansy SSSR, No. 2, 1967, pp. 43-47.
JPRS 40434

Reserves for Increasing Profitability and the Yield Produced by Capital, by K. Araslanov, 7 pp.
RUSSIAN, per, Finansy SSSR, No. 2, 1967, pp. 48-51.
JPRS 40434

Audit of Accounts and Balances under Economic Reform Conditions, by I. Belobzhetskiy, 12 pp.
RUSSIAN, per, Finansy SSSR, No. 1, Jan 1967, pp. 60-64.
JPRS 40212

Index of State Standards for 65, eff as of 1 Jan 1965.
RUSSIAN, rpt, Gosudarstvennyy Komitet Standartov, per i Imeritel'nykh Priborov, 1965,
*PTD BT 23-665-67

USSR
Economic (Contd)

Zhadanov Heavy-Engineering Factory T3-16, RUSSIAN, per, Katalog Spravochnik Chast, 2, 1963, pp 294-296.
*ACSI J-2323
ID 2204017467

A Uniform State Policy in the Field of Technical Progress, by S. Kheyman, 18 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967, pp. 45-55.
JPRS 40322

Statistics Should Be Equal to Our New Problems, by A. Boyarskiy and Ye. Yasin, 13 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967, pp. 56-64.
JPRS 40322

Vladimir Municipal Milk Combine Encounters Problems under Economic Reform, by I. Zyuzukin, 7 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 24 Jan 1967, p. 2.
JPRS 40241

Problems of Material and Moral Interest of Persons in Their Work, by L. Elyakhman, 6 pp.
RUSSIAN, np, Leningradskaya Pravda, 4 Feb 1967, p 2.
JPRS 40271

Material and Technical Supply Under the New Conditions, by V. Semenov, 9 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 6, Dec 1966, pp. 32-37.
JPRS 40271

Methods of Improving the Transportation of Petroleum Bitumen, by G. Khaimov, 5 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No. 6, 1966, pp. 78-79.
JPRS 40243

Methodology of Calculating Water and Power Costs for Nuclear Desalination Plants, by A. A. Loginov.
RUSSIAN, bk, Metodika Rascheta Stoimosti Vody i Elektroenergii Dlya Yadernykh Opresnitel'nykh Ustanovok, Moscow, 1966, 15 pp. (MP-16558)
*AEC

USSR
Economic (Contd)

Problems Pertaining to Methods of Economic Evaluation of Increase in Oil Recovery From Reservoirs as a Result of Increasing the Density of Well Spacing, by A. N. Buchin, RUSSIAN, per, Neft. Khoz., Vol XLII, No 7, 1964, pp 5-9.
ATS RJ-4511

Critical Path Methods Employed for Opening Up Capacities at New Soviet Enterprises, by M. Meleshkin, I. Cherevko, A. Sidorov and A. Franko, 12 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 1, Jan 1967, pp. 43-50.
JPRS 40212

The Budgetary and Khozrashchet Functions of Payment for Funds, by Ya. Liberman, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 2, Feb 1967, pp. 37-46.
JPRS 40439

Mutual Relations between Enterprises and the Budget, by Ya. Khesin, 16 pp.
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JPRS 40439

Problems of Increasing the Productivity of Labor in Industry, by B. Bukhanevich, 16 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 2, Feb 1967, pp. 64-71.
JPRS 40282

Labor Division Regeneration in the USSR, by B. Breyev and A. Ordukanov, 9 pp.
RUSSIAN, per, Politicheskoye Samoobrazovaniye, No. 2, 1967, pp. 44-51.
JPRS 40369

Technical Progress of Ukrainian Machine Tool Building Plants Cited, by A. I. Kostousov, 5 pp.
RUSSIAN, per, Pravda Ukrainy, 25 Jan 1967, p. 2.
JPRS 40373

Natural Illumination of General Assembly Shops in Aircraft Plants, by A. I. Bokhonyuk, 10 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo, No. 1, 1967, pp. 27-31.
JPRS 40233

USSR
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Physical Methods of Production Control in Industrial Construction, by A. Khudenko, 7 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo i Inzhenernyye Sooruzheniya, No. 6, Nov-Dec 1966, pp. 9-10.
JPRS 40222

Intensive Utilization of Productive Resources Planned by Fishing Industry for 1967, by A. Ishkov, 9 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, No. 1, Jan 1967, pp. 2-5.
JPRS 40266

Ways for Improving Rural Construction in Russia in 1967, 5 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No. 12, Dec 1966, pp. 1-2.
JPRS 40222

Stricter Labor Discipline Advocated in Enterprises of Lithuanian SSR, 8 pp.
RUSSIAN, np, Sovetskaya Litva, 21 Feb 1967, p. 1.
JPRS 40282

Conversion to New System of Economic Planning and Management in Moldavia Discussed, by G. Singur, 7 pp.
RUSSIAN, np, Sovetskaya Moldaviya, 1 Feb 1967, pp. 2-3.
JPRS 40241

Results of a Survey of Economy and Thrift in the Moldavian SSR, by P. Voronin, 5 pp.
RUSSIAN, np, Sovetskaya Moldaviya, 7 Feb 1967, p. 2.
JPRS 40271

Products List of Manufacturing Equipment for Large-Panel House-Building Plants, 15 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No. 11, Nov 1966, pp. 28-33.
JPRS 40233

Tasks Set for Construction, Road and Municipal Machine-Building in 1967, 6 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No. 1, Jan 1967, pp. 1-2.
JPRS 40233

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Half of Belorussian Housing Now Built of Prefabricated Room-Blocks, by V. Kamenskiy, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 13 Jan 1967, p. 3.
JPRS 40233

All-Union Conference of the Light Industry Worker Aktiv, 7 pp.
RUSSIAN, per, Tekstil'naya Promyshlennost', No. 8, Aug 1966, pp. 1-4.
JPRS 40047

Assortment and Quality of Textiles Must Be Improved, by V. M. Pelevina, 7 pp.
RUSSIAN, per, Tekstil'naya Promyshlennost', No. 11, Nov 1966, pp. 3-7.
JPRS 40047

Plans of the Soviet Textile Industry for 1967 Outlined, 7 pp.
RUSSIAN, per, Tekstil'naya Promyshlennost', No. 1, 1967, pp. 1-4.
JPRS 40326

The Trade Unions Prepare for the 50th Anniversary of the Revolution, 11 pp.
RUSSIAN, np, Trud, 24 Jan 1967, p. 2.
JPRS 40369

Central Scientific Research Institute for Packaging, Kaluga, USSR, 13 pp.
RUSSIAN, rpt, Tsentral'nyy Nauchno-Issledovatel'skiy Institut tary i Upakovki Kuluga, USSR, 1965.
ATD 66-136

The Tasks of Machine Building in the Second Year of the Five-Year Plan, by K. K. Vinogradov, 10 pp.
RUSSIAN, per, Vestnik mashinostroyeniya, No. 1, 1967, pp. 3-8.
JPRS 40206

Contribution of Soviet Estonia, by E. Andrusov, et al,
RUSSIAN, per, Vneshnyaya Torgovlya, No 7, 1966, pp 38-41.
*ACSI J-2033
ID 2204012967

USSR
Economic (Contd)

Water Desalination Plants for Seagoing Vessels, by V. F. Kovalenko.
RUSSIAN, bk, Vodoopresnitel'nye Ustanovki Morskikh Sudov, Moscow, Izdatel'stvo "Transport", 1964, 302 pp.
*AEC

The Introduction of Guaranteed Wages on Kolkhozes, by M. Palladina and L. Grebennikova, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 11, Nov 1966, pp. 25-33.
JPRS 40064

Political

Preparations for the 50th Anniversary of the October Revolution, 15 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967, pp. 3-13.
JPRS 40322

Review of Volume Six of "History of Philosophy" by G. Vasetskiy, M. Sidorov, and M. Yakovlev, 10 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967, pp. 117-121.
JPRS 40322

Principles of Scientific Communism,
RUSSIAN, bk, Osnovy Nauchnogo Kommunizma, 1966, pp 2-568.
*JPRS/SF-4655

Socialism Advancing Toward Communism by M. Sakov, 11 pp.
RUSSIAN, per, Politicheskoye Samoobrazovaniye, No. 2, 1967, pp. 82-90.
JPRS 40369

Anticapitalist Tendencies of Today's National-Liberation Movement Noted in Pravda, by K. Brutents, 7 pp.
RUSSIAN, np, Pravda, 1 Feb 1967, pp. 4-5.
JPRS 40072

Central Committee of Ukrainian CP Reviews General Progress of Ukraine under Soviet Power, 19 pp.
RUSSIAN, np, Pravda Ukrainy, 26 Jan 1967, pp. 1-2.
JPRS 40257

USSR
Military

Military Application of Rockets, by
B. T. Surikov,
RUSSIAN, rpt, Boyevoye Primeneniye Raket,
1965, pp 100-110.
*ACSI J-2116
ID 2204014567

Missile Men Always on the Alert, by K. Kazakov,
8 pp.
RUSSIAN, per, Kommunist vooruzhennykh sil,
No. 2, Jan 1967, pp. 24-29.
JPRS 40368

The 49th Anniversary of the Soviet Armed Forces,
11 pp.
RUSSIAN, per, Kommunist vooruzhennykh sil, No. 2,
Jan 1967, pp. 30-37.
JPRS 40368

The Problem of Truth in Military Science and
Practice, by Capt V. Puzik, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil,
No. 4, 1967, pp. 55-62.
JPRS 40462

Methodology in Military Affairs, by Col. V.
Morozov and Lt. Col. Ye. Rybkin, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No.
4, Feb 1967, pp. 91-95.
JPRS 40462

Methodological Problems of Military Theory
and Practice, by N. Ya. Sushko.
RUSSIAN, bk, Metodologicheskiye Problemy
Voyennoy Teorii i Praktiki, 1966, pp 1-328.
*JPRS/DC-15149

Small Arms Manual - Model 1943 Submachine
Gun, Sudayev Type,
RUSSIAN, rpt, Nastavleniye po Strelkovomu
Delu - Avtomat (Pistolet-Pulemet) OBR1943
G. Konstruktsiy Sudayev, 1955, pp 3-64.
*ACSI J-2165
ID 2204015467

Manual for Rescue Divers, by V. P. Maksimenko,
59 pp.
RUSSIAN, bk, Posobiye Dlya Vodolaza-Spasatelya,
1957, pp. 1-21 and 55-96.
JPRS 39891

Atomic Submarines Depart for the Ocean, by
Anatoliy Yelkin, 13 pp.
RUSSIAN, up, Pravda Ukrainy, 22, 23 & 24 Feb
1967, p. 4.
JPRS 40368

USSR
Military (Contd)

Rules for Firing Infantry Weapons, by
Lovi and Minin, et al,
RUSSIAN, bk, Pravila Strel'by iz Strelkovogo
Oruzhiya, 1961, 119 pp.
*ACSI J-2117
ID 2204014667

Improved Methods of Determining the Deton-
ation Rate of Charges of Explosives, by
F. M. Galadzhii, et al,
RUSSIAN, per, Trudy MakNII, Vol XVII, 1965,
pp 261-271.
NLL 8313.4 (5350)

Air Defense Troops, by Nikolay Georgiyevich
Tsyganov, 6 pp.
RUSSIAN, bk, Voyska protivovozdushnoy oborony,
1966, pp. 2, 35-40 & 62.
JPRS 40227

Geographic

Origin of the Crimea and Black Sea, by
S. A. Kovalevskiy.
RUSSIAN, per, Priroda, No 3, 1966,
pp 108-113.
*ACIC TC-1215

New Location of Compsopogon Chalybaeus Kutz,
in Ukraine, by G. M. Palamar, 5pp.
UKRAINIAN, per, Ukrayinskiy Botanichnyi Zhur,
Vol 31, No 5, 1959, pp 81-83.
NLL 7s 6d RTB-2251
NCH-203 121

Sociological

Improvement of the Wage System on Sovkhozes,
by K. Kondrat'yev, 7 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 2,
Jan 1967, pp. 27-28.
JPRS 40046

Labor Productivity and Wages Must Be Increased,
by D. Karpukhin and I. Orlovskiy, 8 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 2,
Jan 1967, pp. 30-31.
JPRS 40046

US
Sociological (Contd)

Impressions of a Visit to the Soviet Union
(Part Two), by K. Mann, 8 pp.
HEBREW, np, Davar, 19 Jan 1967, p. 4.
JPRS 40204

Rational Regimes of the Working Week in
Industry, by N. V. Grigor'yev, 8 pp.
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No. 9, Sept 1966, pp. 9-
14.
JPRS 40046

A Five-Day Working Week in the Kuzbas Mines,
by M. F. Sizintsev, 5 pp.
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No. 9, Sept 1966, pp. 15-
18.
JPRS 40046

A Part-Time Working Day for Mothers, by L. D.
Skuridina, 6 pp.
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No. 9, Sept 1966, pp. 15-
18.
JPRS 40046

The Problem of the Rationalization of Workers'
Holidays, by B. N. Khomelyanskiy, 9 pp.
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No. 9, Sept 1966, pp. 25-
31.
JPRS 40046

Problems of Moral Education and the Press,
by I. Tolkunov, 17 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967, pp.
73-84.
JPRS 40322

New Developments in Soviet Schools, by M. A.
Prokov'yev, 10 pp.
RUSSIAN, per, Kommunist, No. 2, Jan 1967,
pp. 93-99.
JPRS 40322

USSR Public Health Statistical Tables, 12 pp.
RUSSIAN, bk, Narodnoye Khozyaystvo SSSR, 1965,
1966, pp. 743-754.
JPRS 40212

Discussion of Symposium on Population Problems,
by V. Moiseyenko, 6 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 2,
Feb 1967, pp. 79-82.
JPRS 40282

USSR
Sociological (Contd)

Effect of Five-Day Work Week on the City of
Ivanovo, by A. Smirnov, 7 pp.
RUSSIAN, np, Pravda, 8 Feb 1967, p. 2.
JPRS 40282

Strengthened Labor Discipline a Necessity, by L.
Maksimov, 5 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 26 Jan 1967,
p. 2.
JPRS 40282

Certain Ethnic Processes among the Peoples of
the Lower and Middle Amur, by A. V. Smolyak,
11 pp.
RUSSIAN, per, Sovetskaya etnografiya, No. 3,
May-June 1963, pp. 21-30.
JPRS 40460

Old Russian Residents of the Kamchatka River
Valley, by I. S. Gurvich, 12 pp.
RUSSIAN, per, Sovetskaya etnografiya, No. 3,
May-June 1963, pp. 31-41.
JPRS 40460

General Meeting of the Academy of Pedagogical
Sciences, by V. Lebedeva, 6 pp.
RUSSIAN, per, Sovetskaya Pedagogika, No. 8,
1966, pp. 156-158.
JPRS 40079

The Introduction of Guaranteed Wages on Kolk-
hozes, by N. Pershits, 5 pp.
RUSSIAN, per, Sovetskiye Profsoyuzy, No. 21,
Nov 1966, pp. 20-23.
JPRS 40046

Possibilities of University Science Expanded
by V. I. Krutov, 7 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No. 11,
Nov 1966, pp. 7-12.
JPRS 40374

The Status of Soviet Jewry, by Naphtali Lavi,
6 pp.
HEBREW, np, Ha'arets, 27 Jan 1967, pp. 3 & 5.
JPRS 40063

Jewish Policy Towards the Soviets, by Ya'acov
Mishan, 7 pp.
HEBREW, np, Lemerkhav, 19 Jan 1967, pp. 4 & 5.
JPRS 40063

USSR
Biographic

Kurchatov Biography.
RUSSIAN, np, Sovetskaya Rossiya,
Aug 3, 5, 7, 10, 13, 16 1966.
*FTD-HT-67-382

EASTERN EUROPE

Economic

Decree on Economic Committees and Scientific (Technical) Councils in Scientific Organizations Operating under Their Own Accounting System, 9 pp.
BULGARIAN, per, Durzhaven vestnik, No. 12, 10 Feb 1967, pp. 1-3.
JPRS 40313

The Status of Forests in Bulgaria on 31 Dec 1965 Reviewed, by Angel Iliev and Dimitur Smilovski, 8 pp.
BULGARIAN, per, Gorsko stopanstvo, Vol. 23, No. 1, Jan 1967, pp. 7-12.
JPRS 40436

Development of the Inventory of Railroad and Tank Cars for the Transport of Petroleum Products and Liquid Chemicals, by T. St. Barbov, 18 pp.
BULGARIAN, per, Khimiya i industriya, No. 7, Nov 1966, pp. 322-326.
JPRS 40306

The Development of the Bulgarian Food Industry, by Vasil Vaklinov, 7 pp.
BULGARIAN, per, Khranitena Promishlenost, Vol. 15, No. 10, Dec 1966, pp. 1-3.
JPRS 40307

The New System of Management and Effectiveness in Agricultural Production, by Dima Vladov, 8 pp.
BULGARIAN, per, Kooperativno zemedelie, No. 2, Feb 1967, pp. 1-4.
JPRS 40436

The Reduction of the Time for Compacting the Ballast Bed After Renovation, etc. by V. Konstantinov, 6 pp.
BULGARIAN, per, Zhelezopyten Transport, Vol XVIII, September 1966, pp 21-23;
DIA LN 61-67

Eastern Europe
Economic (Contd)

Improving the Organization for Maintenance and Overhaul of The Loading-Unloading etc, by Velichko St. Raykov, 8 pp.
BULGARIAN, per, Zhelezopyten Transport, Vol XVIII, Sept 1966, pp 27-30.
DIA LN 61-67

Principles of Credit and Interest Policy, 46 pp.
CZECH, per, Hospodarske Noviny, No. 7, 17 Feb 1967, pp. 1-14.
JPRS 40320

Report on Development of National Economy in 1966, 31 pp.
CZECH, per, Hospodarske Noviny, No. 7, 17 Feb 1967, pp. 4-6.
JPRS 40320

Mannesmann A. G. Start Up New Oxygen Steel Plant.
GERMAN, per, Blech, Oct 1966, pp 512.
BISI 5402

Floods of 1965 in the Hungarian Danube Valley, by M. Bokor, 18 pp.
GERMAN, rpt, Die Hochwasser des Jahres 1965 im Ungarischen Donautal, Dec 1966, pp 237-247.
DIA LN 168-67

New Plate Mills in Germany and Abroad - Planning and Construction, by P. Diestel.
GERMAN, per, Kleppzig Fachber., Vol 73, Oct 1965, pp 435-441.
BISI 5142

Mechanization in the Main Branch for Railroad Equipment Since the Sixth SED Party Congress, by Engr Detlef Roland, 7 pp.
GERMAN, per, Signal und Schiene, Vol 11, No. 2, Feb 1967, pp. 47-49.
JPRS 40357

Calculation and Use of Incentive Wage Rates in the Maintenance Service. Experience With Universal Maintenance Standards (U.M.S.) in an Iron and Steelworks, by H. Steinhauser, K. Schultz.
GERMAN, per, Stahl Eisen, Vol 87, 26 Jan 1967, pp 97-103.
BISI 5484

Eastern Europe
Economic (Contd)

Progress and Problems in Metallurgical Dust Collecting Plants, by H. Weineck.
GERMAN, per, Staub, Vol 24, Nov 1964, pp 475-485.
BISI 4569

Studies on the Mutual Dependence of Pressure Resistance - Size - Cost of Multipurpose Units for a Federal Traffic Network, by Georg Behrendt.
GERMAN, rpt, Untersuchungen zur Frage der gegenseitigen Abhängigkeit von Druckresistenz - Grösse - Kosten von Mehrzweckbauten für eine Bundesverkehrsverwaltung, June 1965.
*AEC ORNL-tr-1646

The Significance for the Traffic Industry of the Great Shipping Canals Between Rhine and Elbe, by Franz J. Schroiff, 14pp.
GERMAN, rpt, Wasser U. Energiewirtschaft, Aug-Sept 1965.
DIA LN 5-67

Transportation in 1967, by E. Klatte and G. Lehmann, 5 pp.
GERMAN, per, Die Wirtschaft, No. 3, 19 Jan 1967, p. 8.
JPRS 40048

The Importance of Cooperation Relations to the Further Development of Socialist Agriculture, by H. Doering, 6 pp.
GERMAN, per, Zeitschrift für Agrar-Ökonomik, Vol X, No. 2, Feb 1967, pp. 62-66.
JPRS 40307

Development of the Peasant Trade Cooperatives into Inter-Enterprise Institutions of Agriculture with Special Emphasis on Supply and Distribution, by R. Schwarzbach, 12 pp.
GERMAN, per, Zeitschrift für Agrar-Ökonomik, Vol X, No. 2, Feb 1967, pp. 66-73.
JPRS 40307

Development of Water Transportation during the Second and Third Five Year Plan Period, by Dr. Andor Szep, 16 pp.
HUNGARIAN, per, Közlekedési Közöny, No. 45, 6 Nov 1966, pp. 787-791.
JPRS 40040

Steps for Realization of Economic Reforms in Hungary, by Rezső Bajusz, 9 pp.
HUNGARIAN, per, Közlekedési Közöny, 11 Dec 1966, pp. 896-898.
JPRS 40320

Eastern Europe
Economic (Contd)

The New System and Concept of Foreign Trade, by József Bogner, 18 pp.
HUNGARIAN, per, Közgazdasági Szemle, No. 2, Feb 1967, pp. 155-167.
JPRS 40378

Certain Problems in Business Administration, by Dr. Béla Csikos-Nagy, 17 pp.
HUNGARIAN, per, Pénzügyi Szemle, No. 1, Jan 1967, pp. 1-14.
JPRS 40438

Production Cooperatives and Planning, by Dr. László Nemeti, 10 pp.
HUNGARIAN, per, Társadalmi Szemle, No. 2, Feb 1967, pp. 39-47.
JPRS 40317

Current Problems of Water Management, 6 pp.
POLISH, per, Gospodarka Wodna, No. 1, Jan 1967, pp. 1-2.
JPRS 40357

Organization of Agricultural Mechanization in Bulgaria, by Marek Michalski, 8 pp.
POLISH, per, Mechanizacja Rolnictwa, No. 2, 16-31 Jan 1967, pp. 15-17.
JPRS 40237

Economic Results of the Experimental Method of Operation in Foundries, by Ryszard Jerzmanowski, 9 pp.
POLISH, per, Przegląd Odlewnictwa, No. 1, Jan 1967, pp. 2-4.
JPRS 40243

Credit Assistance for Polish Farmers in 1967, by Tadeusz Wyszomirski, 14 pp.
POLISH, per, Wiadomości Narodowego Banku Polskiego, No. 1, Jan 1967, pp. 10-16.
JPRS 40466

Investment Problems in the Leather Industry, by Barbara Wisniewska, 9 pp.
POLISH, per, Życie Gospodarcze, No. 9, 26 Feb 1967, pp. 1, 4-5.
JPRS 40245

Problems of Investment Goods Export, by Włodzimierz Radwan, 8 pp.
POLISH, per, Życie Gospodarcze, No. 10, 5 Mar 1967, p. 9.
JPRS 40356

Eastern Europe
Economic (Contd)

Possibilities for Cost Reductions in Investments, by I. Mihai and L. Lachs, 18 pp.
RUMANIAN, per, Probleme Economice, No. 1, 1967, pp. 28-42.
JPRS 40076

Efficient Utilization of Production Capacities in the Machine Building Industry, by Dr. V. M. Popescu, 19 pp.
RUMANIAN, per, Probleme Economice, No. 1, 1967, pp. 43-59.
JPRS 40088

Animal Husbandry in the Agricultural Production Structure, by Nicolae Giosan, 5 pp.
RUMANIAN, np, Scinteia, No. 7260, 22 Feb 1967, pp. 1 & 3.
JPRS 40237

Development of Irrigation in Rumania, by N. Mantz and I. Chirculescu, 9 pp.
RUMANIAN, per, Viata Economica, No. 2, 13 Jan 1967, pp. 8 & 9.
JPRS 40466

Production Organization in Theory and Practice, by C. Stefan, 6 pp.
RUMANIAN, per, Viata economica, No. 9, 3 Mar 1967, pp. 5, 7.
JPRS 40438

Work Norms in Enterprises, by V. Boescu and L. Tintea, 9 pp.
RUMANIAN, per, Viata economica, No. 9, 3 Mar 1967, pp. 8-9.
JPRS 40438

Current Problems in the Yugoslav Maritime Economy, by Vicko Krstulovic, 7 pp.
SERBO-CROATIAN, per, Pomorstvo, No. 1, Jan 1967, pp. 5-6.
JPRS 40437

Achievement of Yugoslav Shipbuilding Enterprise Summarized, 11 pp.
SERBO-CROATIAN, per, Pomorstvo, No. 1, Jan 1967, pp. 13-15.
JPRS 40437

Eastern Europe
Economic (Contd)

Trends of the Yugoslav Economy in the First Year of the Reform, by Dr. Branimir Markovic, 23 pp.
SERBO-CROATIAN, per, Jugoslovenski Pregled, No. 10, Oct 1966, pp. 369-376.
JPRS 40312

Yugoslav Resolution on the Bases of 1967 Economic Policy, 21 pp.
SERBO-CROATIAN, per, Sluzbeni List SFRJ, No. 3, 6 Jan 1967, pp. 1-7.
JPRS 40398

The Law on the Yugoslav Ship Register, 5 pp.
SERBO-CROATIAN, per, Sluzbeni list SFRJ, No. 7, 8 Feb 1967, pp. 176-177.
JPRS 40357

Political

The Organizational Fundamentals, Principles and Standards of Party Life, by Petko Rusev, 14 pp.
BULGARIAN, per, Partien Zhivot, No. 1, Jan 1967, pp. 30-39.
JPRS 40220

The Bulgarian Communist Party and Socialist Realism, by V. Kolevski, 5 pp.
BULGARIAN, np, Rabotnichesko delo, 26 Feb 1967, p. 3.
JPRS 40301

The Effective Period of Literary Copyrights, by Lyuben Velinov, 6 pp.
BULGARIAN, per, Sotsialisticheskoto pravo, No. 10, Dec 1966, pp. 47-52.
JPRS 40301

Rumanian Diplomacy Is Founded on the Principle of National Sovereignty, by Dr. Victor Dimitru, 7 pp.
FRENCH, per, Le Monde Diplomatique, Vol. 4, No. 155, Feb 1967, pp. 1, 15.
JPRS 40055

Communist Underground Activity in the German Federal Republic, by Johannes Schneider, GERMAN, rpt, Kommunistische Untergrundarbeit in der Bundesrepublik Deutschland, 1961, 40 pp.
ACSI I-1108
ID 2204013867

Eastern Europe
Political (Contd)

"Communists Want to Cooperate with Christians," Says Roger Garaudy in an Interview with Der Spiegel, by Dieter Wild and Georg Wolff, 7 pp. GERMAN, per, Der Spiegel, Vol. 21, No. 6, 30 Jan 1967, pp. 82, 84-86. JPRS 40072

Title Index of Legal Decrees Issued by Hungarian Ministries, 9 pp. HUNGARIAN, per, Magyar Kozlony, pp. IV-VIII. JPRS 40467

Stefan Balan's Address to the Sixth UASR Conference, 7 pp. RUMANIAN, per, Gazeta invatamintului, No. 887, 24 Feb 1967, pp. 1 & 2. JPRS 40375

Democratic Principles in Internal Party Life, by Teodor Has, 12 pp. RUMANIAN, per, Lupta de Clasa, Vol. 47, No. 1, Jan 1967, pp. 31-40. JPRS 40055

Rumania Fights for Europe's Security, by V. Iliescu, 8 pp. RUMANIAN, per, Scinteia, No. 7248, 10 Feb 1967, pp. 1, 5. JPRS 40250

Principles of Management in the League of Communists, by Dr. Andrija Kresic, 12 pp. SERBIAN, per, Gledista, No 1, Jan 1967, pp. 33-43. JPRS 40264

Military

The 82-MM Parachute Mortar Shell for Anti-Paratroop Gunnery Training of Anti-Aircraft Artillery and Machine Gun Crews, by K. Milushev, 77 pp. BULGARIAN, per, Armeyski pregled, No. 12, Dec 1966, pp. 64-66. JPRS 40192

Unit Combat Fire in the Defense, by L. Stamboliyski, BULGARIAN, per, Armeyski Preglad, No 1, Jun 1967, pp 75-81. *ACSI J-2125 ID 2204015267

Eastern Europe
Military (Contd)

Training With General Launchers, by H. Panov, BULGARIAN, per, Armeyski Preglad, No 1, Jun 1967, pp 81-83. *ACSI J-2125 ID 2204015267

Role, Tasks, Organization and Measures of Bulgarian Civil Defense, by P. G. Stoykov, et al, 8 pp. BULGARIAN, handbk, Grazhdanska Otbrana, 13 Sept 1966, pp. 4-10. JPRS 40230

Bulgaria's State Borders Inaccessible to Enemies, by Polkovnik Khristo Todorov and Gancho Rachev, 7 pp. BULGARIAN, per, Narodna Armiya, 30 Dec 1966, p. 2. JPRS 40192

Military Missiles, by Svoboda and Kusak, CZECH, per, Letectvi Kosmonautika, No 18, 1966, pp 707-708. ACSI J-2123 ID 2204015167

Hand Anti-Tank Weapons, by Miroslav Doksansky, CZECH, per, Vojenska Technika, No 9, 1966, 7 pp. ACSI J-2126 ID 2204015467

Handbook for Panzer Crews, (Parts I and II), GERMAN, bk, Handbuch fur Panzerbesatzungen, 1966, Part I - pp 1-120, part II - pp 121-225. Army Nat Cmd SI-6-79-603

Have Smoke Agents Become Outdated, by K. Klose, GERMAN, per, Militaertechnik, No 7, 1965, pp 252-254. ACSI J-2221 ID 2204016267

Means and Methods of Protection Against Weapons of Mass Destruction, Part 5, Personnel Protection, by Gerhard Kaper, GERMAN, per, Schriftenreihe Luftschutz, No 19, pp 42-55. ACSI J-1775 ID 2204007567

Eastern Europe
Military (Contd)

Test Firing with Plastic Ammunition, by
Vitalis Pantenburg,
GERMAN, per, Soldt und Technik, Vol IX,
No 11, 1966, pp 587-588.
*ACSI J-2220

How do I Become a Military Pilot, 7 pp.
GERMAN, rpt, Swiss Department of Aviation
and Air Defense, January 1963, pp 1-8.
DIA LN 137-67

Why are there Still No Nuclear
Powered Rockets? by A. Marks, 9 pp.
POLISH, per, Skrzydla Polska, No 4,
1965, pp 9 and 18. P100063167
FTD HT 66-131

Geographic

Solar Climate of the Baltic Coast, by
Sabina Tyczka, 10 pp.
POLISH, per, Przegląd Geofizyczny, Vol VIII,
No 4, 1963, pp 207-220.
CFSTI TT 65-50393

Geographical Distribution of Heavier
Hailstorms Recorded in Poland in the
1946-1956 Period, by Czesław Kozminski, 13 pp.
POLISH, per, Przegląd Geograficzny,
Vol XXXVI, No 1, 1964, pp 87-102.
CFSTI TT 65-50377

The Albedo Map of the Region of Wojcieszow
Gorny (Silesia), by Mieczysław Kluge,
Barbara Krawczyk, 7 pp.
POLISH, per, Przegląd Geograficzny,
Vol XXXVI, No 1, 1964, pp 131-141.
CFSTI TT 65-50380

Sociological

Convention between Bulgaria and the USSR
Governing Dual Citizenship and Supplemental
Protocol to the Convention Governing Dual
Citizenship, 6 pp.
BULGARIAN, per, Durzhaven vestnik, No. 2, 6 Jan
1967, pp. 1-2.
JPRS 40190

Eastern Europe
Sociological (Contd)

Provisional Decree on Funds for Scientific
Organizations Operating under Their Own Account-
ing System, 8 pp.
BULGARIAN, per, Durzhaven vestnik, No. 14, 17
Feb 1967, pp. 1-3.
JPRS 40313

The Atheistic Education of the Bulgarian Work-
ing People, 6 pp.
BULGARIAN, per, Partien zhivot, No. 3, Mar 1967,
pp. 3-8.
JPRS 40375

The Right of Asylum, by Petko M. Radoynov,
8 pp.
BULGARIAN, per, Sotsialisticheskovo pravo, No.
10, Dec 1966, pp. 10-17.
JPRS 40301

The Dilemma of the Catholic Church in the
Dialogue with the Marxists, by Leopold Gruen-
wald, 12 pp.
GERMAN, per, Weg und Ziel, Vol. 23, No. 12,
Dec 1966, pp. 635-644.
JPRS 40043

Achievements in the Public Health Sector,
9 pp.
RUMANIAN, per, Muncitorul Sanitar, 11 Jan
1967, pp. 1-4.
JPRS 40297

Achievements in Public Health in 1966 and Tasks
for 1967, 20 pp.
RUMANIAN, per, Muncitorul Sanitar, Vol. 18, No.
5(869), 1 Feb 1967, pp. 2, 7.
JPRS 40435

Essential Attributes of the Modern Press,
by Dumitru Popescu, 20 pp.
RUMANIAN, per, Presa Noastra, No. 12, Dec
1966, pp. 1-8.
JPRS 40297

Eastern Europe
Sociological (Contd)

First National Conference on Psychology,
24-26 November 1966, by Mihai Golu, 5 pp.
RUMANIAN, per, Revista de Pedagogie, Vol. 16,
No. 1, Jan 1967, pp. 113-116.
JPRS 40297

Significance of Demographic Trends in 1966,
by M. Bulgaru, 8 pp.
RUMANIAN, per, Scinteia, 14 Feb 1967, pp. 1-2.
JPRS 40240

Geographical and Social Migration of the Rural
Population in Yugoslavia Studied, by Svetozar
Livada, 30 pp.
SERBO-CROATIAN, per, Ekonomika Poljoprivrede
No. 12, Dec 1966, pp. 903-22.
JPRS 39865

Contracts Concerning Licenses, by Dragomir
Gerovic, 7 pp.
SERBO-CROATIAN, per, Jugoslovenski Pregled,
No. 10, Oct 1966, pp. 385-386.
JPRS 40356

Economic Courts, by Vjekoslav Hraste, 15 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled,
No. 11, Nov 1966, pp. 393-398.
JPRS 40435

Yugoslavia Basic Law on Internal Affairs, 22 pp.
SERBO-CROATIAN, per, Slusbeni list SFRJ, No 49,
17 Dec 1966, pp. 949-955.
JPRS 40277

Search for Security under the Law, 16 pp.
SLOVAK, up, Kulturny zivot, No. 5, 3 Feb 1967,
pp. 1, 8, 9.
JPRS 40051

Marxism and Trends in Philosophy, by Milan
Prucha, 7 pp.
SLOVAK, per, Kulturny zivot, No. 5, 3 Feb 1967,
p. 10.
JPRS 40190

WESTERN EUROPE

Economic

Sections 7 and 8 Netherlands Defense
1967. 20 pp.
DUTCH rpt pp 1-3; 1-7; 1.
DIA LN 115-67

French firm Reillumix - Abbreviated Commerical
Catalogue,
FRENCH, 1957, 36 pp.
Army Mat Cmd
SI-7-75-635

The Future of Individually Owned Ships, by
Guenter Brackert, 9 pp.
GERMAN, per, Binnenschiffahrts-Nachrichten,
No 13, 27 March 1965, pp 192-196.
DIA LN 2-67-E

Methods of Considering Economic Viewpoints
in Planning and Building, by T. E. Schmidt.
GERMAN, per, Chemie Ing. Techn. Vol 38,
1966, pp 250-254.
Chem Trans Sv 2833

The Schwegern Harbor - An Illustration
of an Exemplary Harbor Rationalization, by
Hans-Joachim Gaffron, Essen, 5 pp.
GERMAN, per, Der Verkehrs-Ingenieur, Vol V,
No 4, April 1965, pp 21-23.
DIA LN 679-66

Industrial Fair, Hannover 1966, by
H. Premor,
GERMAN, per, Hebezeuge und Foerdermittel,
No 8, 1966, pp 245-251.
ACSI J-1789
ID 2204008467

Danube Navigation and the Regensburg
Harbor, by P. Feuchter, 7 pp.
GERMAN, per, Int Archiv Fur Verkehrswesen,
Vol XV, No 7, 1963, pp 162-164.
DIA LN 678-66-A

A Study Concerning the Capacity of the
West-European Inland Navigation Fleet, 5 pp.
GERMAN, per, Internationale Transport Zeitschrift,
No 26, 28 June 1963, pp 2325-2327.
DIA LN 3-67-A

Western Europe
Economic (Contd)

Organisational Principles in Determining Hours Worked by Wage-Earners and Salaried Staff for Inter-Works Comparisons, by D. Pruss. GERMAN, per, Stahl Eisen, Vol 86, 25 Aug 1966, pp 1083-1090. BISI 5168

Storting Bill No 15, NORWEGIAN, rpt, Incl to IR 1872007566, ACSI J-1652

Railroads in Finland, 5 pp. PORTUGUESE per, Revista Ferroviaria, Vol XXVII, No 8, 13 September 1966, pp 22-23. DIA LN 52-67

Swedish Motor Torpedoboats T15-18 (18.7 m mtb), by Curt Borgenstam 5 pp. SWEDISH, per, Sveriges Flotta, Vol LXII, No 3, Mar 1966, pp 14-15. DIA LN 358-66

Political

Book by a Member of the Danish Socialist People's Party Reviewed by a Communist, by Gelius Lund, 8 pp. DANISH, np, Land og Folk, 24 & 25 Jan 1967, p. 7. JPRS 39887

Danish Newspaper Editor Analyzes Draft Program of Swedish Communist Party, by Gert Petersen, 7 pp. DANISH, per, SF Bladet, No. 13, 15 Feb 1967, pp. 4 & 5. JPRS 40273

Marxism in Our Time, by Jaap Wolff, 9 pp. DUTCH, per, Politiek en Cultuur, Vol. 26, No. 12, Dec 1966, p. 538. JPRS 40072

Finnish Communist Presents an Outline of Marxism, by Raimo Malm, 6 pp. FINNISH, per, Aikalainen, No. 1, 1967, pp. 10-16. JPRS 40465

Western Europe
Political (Contd)

Ideological Work of the Finnish Communist Party, by Erkki Salomaa, 8 pp. FINNISH, np, Kansan Uutiset, 5 Mar 1967, pp. 4 & 5, and 7 Mar 1967, p. 7. JPRS 40465

Interview with Aarne Saarinen, Chairman of the Finnish Communist Party, by Jaako Okker, 9 pp. FINNISH, per, Suomen Kuvalehti, No. 4, 28 Jan 1967, pp. 22, 23, 44 and 45. JPRS 40198

Army Control by Proletariat Seen Essential, by Clovisse Versa, 6 pp. FRENCH, per, Avante-Garde Jeunesse, No. 3, Jan 1967, pp. 16-17. JPRS 40072

The 18th Congress of the French Communist Party, by Claude Harmel, 15 pp. FRENCH, per, Est & Ouest, No. 376, Vol. 19, 16-31 Jan 1967, pp. 1-7. JPRS 40273

French Leftist Maintains Dialogue between Marxists and Christians Must Be Based on Understanding of Theory, 9 pp. FRENCH, per, Perspectives Socialistes, No. 102, Feb 1967, pp. 5-10. JPRS 40308

Italian Marxist-Leninist View of Relationship between Militants and Party, by Ugo Duse, 9 pp. ITALIAN, per, Il Comunista, Vol. 3, No. 1-2, Jan-Feb 1967, pp. 4-5. JPRS 40072

Reactionary Trends in the PCI: A Socialist Opinion, by Mario Pinzauti, 9 pp. ITALIAN, per, Corrispondenza Socialista, Vol. VIII, No 1, Jan 1967, pp. 6-13. JPRS 40215

Italian Anti-Communist Journal Debates on Whether Mao or Brezhnev Will Fall, by Paolo Danieli, 9 pp. ITALIAN, per, Corrispondenza Socialista, No. 2, Feb 1967, pp. 99-103. JPRS 40465

Western Europe
Political (Contd)

Berlinguer's Report to the Central Committee of the Italian CP, by Enrico Berlinguer, 16 pp.
ITALIAN, np, l'Unita, 24 Feb 1967, pp. 11-12.
JPRS 40308

Italian CP Secretary General Gives Views on Unity of the International Workers' Movement, by Luigi Longo, 5 pp.
ITALIAN, np, l'Unita, 25 Feb 1967, pp. 1 & 11.
JPRS 40308

Italian CP Leaders Contribute Views to Debate on Communist China, 16 pp.
ITALIAN, np, l'Unita, 25 Feb 1967, pp. 11 & 12.
JPRS 40308

Editorial in Italian CP Pro-Chinese Journal on the Cultural Revolution in China, 5 pp.
ITALIAN, per, Vento Dell'Est, Vol II, No 5, Jan 1967, pp 3-7.
JPRS 39675

Swedish CP Chairman Discusses Proposed Party Changes, by C. H. Hermansson, 5 pp.
NORWEGIAN, np, Friheten, 11 Feb 1967, p. 5.
JPRS 40273

Proposed New Program for the Communist Party of Sweden, 23 pp.
SWEDISH, np, Norrskens Flaman, 4 Feb 1967, p. 7; 6 Feb 1967, p. 7; 7 Feb 1967, p. 5; 8 Feb 1967, p. 5; 9 Feb 1967, p. 5; 10 Feb 1967, p. 5; 11 Feb 1967, p. 5;
JPRS 40308

Military

Hawk, the Ground-to-Air Guided Missile Against Low Flying Aircraft, by C.A.M. Poubion, 7 pp.
DUTCH, per, De Militaire Spectator, April 1966, pp 173-178.
DIA LN 354-66

New System for Approaching the Design of Founding Rockets, by Ernst Giamonbi.
ITALIAN, paper, Paper Presented at 13th International Communication Convention 12-16 October 1965,
*NASA TT F-489

Western Europe
Military (Contd)

Administration and Supply Service in the Infantry Battalion by Torkel Roestad, 8pp.
NORWEGIAN, per, Norsk Militaert Tidsskrift, Vol CXXXVI, No 11, Nov 1966, pp 615-620.
DIA LN 116-67

The Armored brigade, by Hans Carlsson, SWEDISH, per, Arme Nytt, No 6, 1966, pp 10-11, 20-21.
*ACSI J-2020
ID 2204012067

Fire Control and Communication Facilities, SWEDISH, per, Arme Nytt, No 1, 1967, p 7.
*ACSI J-2119
ID 2204014867

The Divisional Gun Battalion, by Carl Henrik Kyellin, SWEDISH, per, Arme Nytt, No 1, 1967, pp 10-11.
*ACSI J-2119
ID 2204014867

The New Regional Administration of the Quartermaster Service, by Rolf Ohman. SWEDISH, per, Svensk Intendentur Tidsskrift, No 8, Aug 1966, pp 194-209.
DIA LN 107-67

AFRICA

Economic

The Organization of the Port of Abidjan, by J. Grosdidier de Matons, 190 pp.
FRENCH, rpt, 1965.
DIA LN 397-66

French Aid and Cooperation Fund Appropriations to Africa, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire, No. 451, 15 Feb 1967, pp. 9118-9120.
JPRS 40229

Africa
Economic (Contd)

Gabon's Manganese Potential Evaluated, by Serge Lerat, 11 pp.
FRENCH, per, Les Cahiers d'Outre-Mer, Vol. 19, No. 76, Oct-Dec 1966, pp. 354-363.
JPRS 40080

Study of Congo (Kinshasa) Economic Development Plans, by Joseph Segers, 21 pp.
FRENCH, per, Congo-Afrique -- Economie, Culture, Vie Sociale, Vol VII, No. 12, Feb 1967, pp. 61-80.
JPRS 40229

French Technical Assistance to Africa Reviewed, 5 pp.
FRENCH, per, France Eurafrigue, No. 181, Feb 1967, pp. 5-6.
JPRS 40316

Transport: A Crucial Problem for Chad, by Simone Mallet-Buisson, 5 pp.
FRENCH, per, France-Eurafrigue, Vol. 19, No. 181, Feb 1967, pp. 22-24.
JPRS 40457

French Volunteers for Progress Said To Be Successful in Chad, by Yves-Marie Choupaut, 5 pp.
FRENCH, per, France Eurafrigue, Vol. 19, No. 181, Feb 67, pp. 37-39.
JPRS 40457

Facts and Figures on the Kinkon Power Dam in Guinea, and Other Similar Projects, by Karim Fofana, 5 pp.
FRENCH, per, Horoya, No. 1119, 7 Feb 1967, pp. 4 & 3.
JPRS 40321

Organisation of the Central African-Israeli Industrial Center, 12 pp.
FRENCH, per, Journal Officiel de la Republique Centrafricaine, Vol 9, No 3, 1 Feb 1967, pp. 52-57.
JPRS 40262

Survey of French Assistance Programs in Africa, 1964-1966, 5 pp.
FRENCH, per, Le Moniteur Africain, No. 278, 25 Jan 1967, pp. 7, 14.
JPRS 40080

Africa
Political

Conference on Planning in French-Speaking Africa, 7 pp.
FRENCH, per, Bulletin de l'Afrique Noire, No. 450, 8 Feb 1967, pp. 9098-9103.
JPRS 40321

Talks with Congo (Kinshasa) Rebel Leader Christophe Gbenye and Supporters, 14 pp.
FRENCH, per, Courrier Africain, No. 61, 18 Feb 1967, pp. 5-17.
JPRS 40443

Previously Unpublished Correspondence among Leaders of the Rebellion, by Gaston Soumialot, 10 pp.
FRENCH, per, Le Courrier Africain, No. 61, 18 Feb 1967, pp. 25-32.
JPRS 40443

Gbenye's Notes to Spaak, 6 pp.
FRENCH, per, Le Courrier Africain, No. 61, 18 Feb 1967, pp. 33-37.
JPRS 40443

Guinean President Pays Tribute to Chinese People's Republic, by Sekou Toure, 6 pp.
FRENCH, per, Horoya, Vol. 7, No. 1118, 5 & 6 Feb 1967, pp. 4 & 3.
JPRS 40321

Guinean President Calls for Revolutionary Advancement in Speech to National Council of Revolution, by Ahmed Sekou Toure, 14 pp.
FRENCH, per, Horoya, No. 1132, 23 Feb 1967, pp. 1-2; No. 1133, 24 Feb 1967, pp. 1-2; and No. 1134, 25 Feb 1967, pp. 1-3.
JPRS 40316

French Decree Regulating Referendum To Be Held in French Somaliland on 19 Mar 1967, 7 pp.
FRENCH, per, Journal Officiel de la Republique Francaise, No. 24, 28 Jan 1967, pp. 1011-1012.
JPRS 40321

Decree Setting Up National Police Force, 34 pp.
FRENCH, per, Moniteur Congolais, Vol 7, No 21, 15 Nov 1966, pp 731-739.
JPRS 40262

Writer Pleads Cause of Presidential Regimes in Africa, by Nseyimana Laurent, 10 pp.
FRENCH, per, Remarques Africaines, Vol. 9, No. 283, 9 Feb 1967, pp. 61-65.
JPRS 40447

Africa
Political (Contd)

A West German View of the Situation in the Somali Republic, by Sepp Dietheim, 7 pp.
GERMAN, per, Africa Heute, No 4, 15 Feb 1967, pp 54-56.
JPRS 40263

Marxist Analysis of African Realities, 12 pp.
ITALIAN, per, Rinascita, No 48, and 50 3 December and 17 December 1966, pp 12-13.
JPRS 39454

Sociological

Islam and Black Africa, by J. C. Froelick, 11 pp.
FRENCH, per, Afrique Contemporaine, Vol 5, No. 28, Nov/Dec 1966, pp. 24-28.
JPRS 40080

Anti-Witchcraft Movement in Central Africa, by Jeanne-Francoise Vincent, 40 pp.
FRENCH, per, Cahiers d'Etudes Africaines, Vol. VI, No. 24, 4th issue of 1966, pp. 527-563.
JPRS 40321

Third Conference of Malian Students in the Soviet Union, 8 pp.
FRENCH, per, L'Essor Hebdomadaire, No 395, 20 Feb 1967, pp. 4 and 6.
JPRS 40263

Report and Resolutions of Third Congress of Congo (Kinshasa) General Union of Students, 48 pp.
FRENCH, per, Etudes Congolaises, Vol. 9, No. 5-6, Sept-Dec 1966, pp. 23-103.
JPRS 40318

The Growing Role of Women in Guinean Society, by Sekou Toure, 5 pp.
FRENCH, np, Horoya, 7 Feb 1967, pp. 1, 2.
JPRS 40080

Endogamy and Exogamy in Traditional Mossi Society in Upper Volta, by R. Pageard, 34 pp.
FRENCH, per, Journal de la Societe des Africanistes, Vol 36, No. 1, 1966, pp. 109-140.
JPRS 40224

Africa
Sociological (Contd)

The Social Development of the African Women in Angola, by J. A. Soares Fernandez, 33 pp.
PORTUGUESE, per, Estudos Politicos e Sociais, Vol IV, No 3, 1966, pp 1027-1061.
JPRS 40263

Biographic

Biographical Information on Rebel Leaders, 7 pp.
FRENCH, per, Le Courrier Africain, No. 61, 18 Feb 1967, pp. 18-23.
JPRS 40443

Biographical Data on Chadian President, by Claude Gerard, 5 pp.
FRENCH, per, France Eurafrigue, Vol. 19, No. 181, Feb 1967, pp. 10-12.
JPRS 40457

MIDDLE EAST

Economic

Decision Pertaining to Economic and Technical Cooperation between the Government of the United Arab Republic and the Government of the Peoples Republic of Rumania, 16 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, Issue 251, 1 Nov 1966.
JPRS 39900

Decision of the Prime Minister No. 4190 of 1966 Pertaining to the Formation of a Special Committee for the Conclusion of the Two Agreements on Trade and Long-Term Payments and the Protocol on the Quota of Goods for 1967 with the Socialist Republic of Rumania and the Protocol on the Quota of Goods for 1967 with the Peoples Republic of Hungary, 2 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 255, 6 Nov 1966
JPRS 39900

Middle East
Economic (Contd)

Decision Pertaining to the Trade and Long-Term Payment Agreement between the Government of the UAR and the Peoples Republic of Poland, 7 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 257, 8 Nov 1966.
JPRS 39900

Decision Pertaining to the Agreement Signed between the Governments of the UAR and the Peoples Republic of Poland on Exportation of Mining Machinery and Equipment in Return for Phosphate, 5 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 263, 15 Nov 1966.
JPRS 39900

Decision Pertaining to the Trade and Long-Term Payment Agreement between the Governments of the UAR and the Peoples Republic of Poland, 7 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 263, 15 Nov 1966.
JPRS 39900

Decision Pertaining to the Postal Services Agreement between the Government of the UAR and the Socialist Federal Republic of Yugoslavia, 5 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 275, 29 Nov 1966.
JPRS 39900

Decision Pertaining to the Telecommunications Agreement between the Government of the UAR and the Socialist Federal Republic of Yugoslavia, 5 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 275, 29 Nov 1966.
JPRS 39900

Decision Pertaining to the Second Economic Cooperation Agreement between the Government of the UAR and the Government of the Socialist Republic of Czechoslovakia, 9 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 279, 4 Dec 1966.
JPRS 39900

Decision Pertaining to the Plant Protection Agreement between the Government of the UAR and the Socialist Federal Republic of Yugoslavia, 5 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 279, 4 Dec 1966.
JPRS 39900

Middle East
Economic (Contd)

Balance of Payments Summary.
ARABIC, nps, Al-Medina, 13 Mar 67.
DIA 1884004367

The Black Market in the UAR, 23 pp.
ARABIC, per, al-Tali'ah, Feb 1967, pp. 19-44.
JPRS 40265

Commodity Lists for Morocco-USSR Trade in 1967, 5 pp.
FRENCH, per, Note de Documentation, Jan-Feb 1967.
JPRS 40442

Morocco-Hungary Trade Agreement Extended, 6 pp.
FRENCH, per, Note de Documentation, Jan-Feb 1967, pp. 10-12.
JPRS 40442

Organizational Changes in the Ministry of Defense Have Brought About the Creation of a New Body: The Department of Allocation and Production, by Joseph Levitah, 6 pp.
HEBREW, per, Bamahaneh, 3 Jan 1967, pp. 8-9.
JPRS 39747

Political

Decision Pertaining to the Approval of the Protocol on the Negotiations between the Government of the UAR and the Government of the Socialist Republic of Czechoslovakia, 3 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 276, 30 Nov 1966.
JPRS 39900

Decision Pertaining to the Scientific and Technological Cooperation Agreement and the Executive Program Attached To It Concluded between the Government of the UAR (Ministry of Scientific Research) and the Government of the Socialist Republic of Czechoslovakia (The Czech Academy of Sciences), 6 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 276, 30 Nov 1966.
JPRS 39900

Middle East
Political (Contd)

Decision Pertaining to the Protocol Attached to the Trade Agreement Concluded between the Government of the UAR and the Democratic Peoples of Korea, 20 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 268, 21 Nov 1966.
JPRS 39900

Decision Pertaining to the Protocol Attached to the Long-Term Trade Agreement between the Government of the UAR and the Government of the Peoples Republic of Rumania, 3 pp
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 268, 21 Nov 1966.
JPRS 39900

Agreement between the United Arab Republic and the German Democratic Republic, 6 pp.
ARABIC, np, al-Jarida al-Rasmiyyah, No. 16, 22 Jan 1967, pp. 39-41.
JPRS 40431

Correspondence and Letters of Confirmation Exchanged between the United Arab Republic and the German Democratic Republic, 13 pp.
ARABIC, np, al-Jarida al-Rasmiyyah, No. 16, 22 Jan 1967, pp. 42-44.
JPRS 40431

Agreement between the United Arab Republic and Sierra Leone, by Mahmoud Riyyad, 5 pp.
ARABIC, np, al-Jarida al-Rasmiyyah, No. 17, 23 Jan 1967, pp. 47-49.
JPRS 40431

Algerian Communal Popular Assemblies and Executive Organs Installed, 48 pp.
FRENCH, per, El Moudjahid, 18-25 Feb 1967, pp. 1-4.
JPRS 40447

CP Central Committee of Maki Issues Statement on Communist Schism in Israel, 5 pp.
HEBREW, np, Kol Ha'am, 1 Feb 1967, pp. 1 & 4.
JPRS 40308

Meir Wilner's Speech at the 14th Session of the Plenary Central Committee of the Israel Communist Party, 39 pp.
HEBREW, per, Zo Haderekh, 1 Feb 1967, pp. 4 & 7; 8 Feb 1967, pp. 4 & 7; and 22 Feb 1967, pp. 4 & 7.
JPRS 40308

Middle East
Political (Contd)

The Toubi-Vilner Group on the Communist Schism in Israel, by M. Vilner, 8 pp.
HEBREW, per, Zo Haderekh, 15 Feb 1967, p. 4.
JPRS 40308

Military

The Israeli Arms Industry, 1967, by Joseph Levita, 8 pp.
HEBREW, per, Bamahaneh, 21 Feb 1967, pp. 10-11.
JPRS 40379

Nahal Ensures a Settlement Reserve That Is Vital to the Existence and Security of the State, by David Moshiov, 8 pp.
HEBREW, np, Davar, 20 Jan 1967, pp. 3-9.
JPRS 40204

Sociological

Decision Pertaining to the Agreement on Cooperation in Public Health Concluded between the Government of the UAR and the Government of the Socialist Republic of Czechoslovakia, 2 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 240, 19 Oct 1966.
JPRS 39900

Decision Pertaining to Public Health Cooperation Agreement between the Government of the UAR and the Peoples Republic of Hungary, 2 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 241, 20 Oct 1966.
JPRS 39900

Ministerial Decision No. 232 of 1966 Authorizing Travel to Czechoslovakia, 1 pp.
ARABIC, per, al-Jaridah al-Rasmiyyah, No. 85, 3 Nov 1966.
JPRS 39900

Middle East
Sociological (Contd)

Statistics on the Adolescent Population of
Algeria, 8 pp.
FRENCH, per, Information Rapide, May 1966,
pp. 13-20.
JPRS 40442

The Arabs, by Juraj Bydzovsky.
SLOVAK, bk, Arabi, 1966, 390 pp.
*JPRS/NY-13696

FAR EAST

Economic

The Revolutionary Production Committee of
Shanghai Glass-Making Machinery Plant,
8 pp.
CHINESE, per, Hung-wei Chan-pao, No. 18, 15
Jan 1967, p. 2.
JPRS 40396

Effects of the Great Proletarian Cultural Revolu-
tion on the College of Mining, 8 pp.
CHINESE, np, Hung-wei-ping, No. 11, 25 Nov 1966,
p. 4.
JPRS 40349

Talks on the Development of Natural Resources
in Vietnam Rejuvenating the Rubber Plantations
of Vietnam, by M. J. Bouthillin,
FRENCH, rpt, Causeries sur le Developpement
des Ressources Naturelles au Viet-Nam, Aug
1960, pp 5-22.
ACSI J-1769
ID 2204007067

Socio-Economic Study of the Vientiane Plain,
295 pp.
FRENCH, mono, Plaine De Vietiane, Office for
Development of Overseas Agricultural Production,
Vol I, Vol II, and Appendices.
JPRS 40299

Recent Sino-Japanese Trade Complications, 19 pp.
JAPANESE, np, Akahata, 14 Dec 1966, No 5834,
p 5.
JPRS 40268

Far East
Economic (Contd)

On the Occasion of the Opening of the Kyoyo,
9 pp.
JAPANESE, rpt, Doro Kensetsu, July 1966
pp 5-8.
DIA LN 732-66-C

The Basic Approach to the Improvement of the
People's Economy in Our Country Is a Rational
Utilization of Our Present Economic Foundations,
by Kim Ha-kwang and Kim Chae-pong, 13 pp.
KOREAN, per, Kulloja, No. 12, Dec 1966, pp.
28-34.
JPRS 40095

Our Party Policy for the Balanced Growth of
Accumulation and Consumption, by Ch'oe Chung-
guk, 14 pp.
KOREAN, per, Kulloja, No. 12, Dec 1966, pp. 35-
42.
JPRS 40095

North Korean Party Meeting Stresses Scientific
and Technical Guidance in Agriculture, by Kim
Kye-hyon, 16 pp.
KOREAN, per, Kulloja, No. 1, 1967, pp. 24-32.
JPRS 40461

Continuing To Step Up the Supply of Small
Machinery to the Agricultural Production Cooper-
atives, by Vu Quoc Tuan, 11 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967,
pp. 50-57.
JPRS 40252

Vigorously Developing Agricultural Production
in the Mountain Areas, by Le Trung Dinh, 7 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967,
pp. 58-63.
JPRS 40252

Discussion on the Progress of Industrialization
by Tran Phuong, 24 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No. 36,
Dec 1966, pp. 3-14.
JPRS 40205

Utilize the Power of the Small Water Flows
To Serve the Local Economy, by Le Hong Tam,
12 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No. 36,
Dec 1966, pp. 15-22.
JPRS 40205

Far East
Economic (Contd)

Discussing the Problem of Raising Marine Products, by Pham Huy Le, 15 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No. 36, Dec 1966, pp. 45-52.
JPRS 40205

The Problems of Mechanization, by Nguyen Canh Ho, 12 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No. 36, Dec 1966, pp. 65-70.
JPRS 40205

Lang Son Builds Up Its Economy, by Phan Quang, Duong Khanh and Pham Toan, 11 pp.
VIETNAMESE, np, Nhan Dan, 21 Jan 1967, p. 2.
JPRS 39997

Development of Irrigation in Lang Son, by Pham Toan, 6 pp.
VIETNAMESE, np, Nhan Dan, 22 Jan 1967, p. 2.
JPRS 40392

Lam Thao District Reforms Production Leadership, by Nguyen Van Thuat, 5 pp.
VIETNAMESE, np, Nhan Dan, No. 4,682, 1 Feb 1967, p. 2.
JPRS 40205

The Collapse of South Vietnam's Economy, by Khanh Nam, 6 pp.
VIETNAMESE, np, Nhan Dan, 5 Feb 1967, p. 3.
JPRS 40197

Strong Leadership Needed in Intensive Cultivation to Increase Spring Rice Productivity, by Duong Hong Hien, 7 pp.
VIETNAMESE, np, Nhan Dan, 17 Feb 1967, p. 2.
JPRS 40315

Ha Bac Determined to Move Fast on Water Conservancy Front, by Phuong Minh Nam, 5 pp.
VIETNAMESE, np, Nhan Dan, 3 Mar 1967, p. 2.
JPRS 40464

Ha Tinh Performs Wartime Water Conservancy Work, by Vo Trong Cuc, 5 pp.
VIETNAMESE, np, Nhan Dan, 5 Mar 1967, p. 2.
JPRS 40464

Countering Water-Logging in Hai Duong, by Tran Minh Tan, 5 pp.
VIETNAMESE, np, Nhan Dan, No. 4714, 6 Mar 1967, p. 2.
JPRS 40449

Far East
Economic (Contd)

Problem of Constructing Rice Fields in North Vietnam, 12 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No. 24, Dec 1966, pp. 29-41.
JPRS 40231

Some Lessons in the Successful Implementation of the State Plan, by Dang Thi, 11 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No. 1, Jan 1967, pp. 38-48.
JPRS 40185

Important Elements of the 1967 State Plan, by Vu Quoc Tuan, 10 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No. 1, Jan 1967, pp. 49-67.
JPRS 40185

Initial Experiences on the Organization of Recapitulation of Field Construction Work in Thai Binh, by Dao Ngoc Canh, 8 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Oct 1966, pp. 14-17.
JPRS 40295

Summary Report on the First Nationwide Conference on Mechanics, by Le Khac, 15 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, No. 11, 1966, pp. 6-12.
JPRS 39983

Political

Proletarian Dictatorship and Proletarian Extensive Democracy, by T'ian Hou-lan, 5 pp.
CHINESE, per, Hung-ch'i, No. 2, 16 Jan 1967, pp. 37-39.
JPRS 40041

Adhere to the Path Pointed Out by Chairman Mao, 5 pp.
CHINESE, np, Hung-ch'i, No. 3, 26 Dec 1966, p. 2.
JPRS 40234

The Struggle Against the Bourgeois Reactionary Line, 11 pp.
CHINESE, np, Hung-ch'i, No. 3, 26 Dec 1966, pp. 3-4.
JPRS 40234

Far East
Political (Contd)

On Correcting Mistaken Ideas in the Party, by
Mao Tse-tung, 11 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 3-12.
JPRS 40086

On the Proletarian Revolutionaries' Struggle
to Seize Power, 10 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 13-18.
JPRS 40086

On Revolutionary Discipline and Revolutionary
Authority of the Proletariat, 5 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 19-21.
JPRS 40086

The People's Liberation Army Firmly Backs the
Proletarian Revolutionaries, 3 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 22-23.
JPRS 40086

A Great Victory in the Great Proletarian Cul-
tural Revolution in Shansi Province, 3 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 27-28.
JPRS 40086

Great Alliance Is the Key Factor, 3 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 30-31.
JPRS 40086

Spring Thunder over Southwest China, 2 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 36-37.
JPRS 40086

A New Dawn Breaks over the Northeast, 3 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 39-40.
JPRS 40086

Get Rid of "Self-Interest," Forge a Great Alli-
ance of Revolutionary Rebels, 6 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 41-44.
JPRS 40086

Far East
Political (Contd)

After Seizure of Power, 8 pp.
CHINESE, per, Hung-ch'i, No. 3, 3 Feb 1967,
pp. 45-49.
JPRS 40086

Speech by Comrade Chiang Ch'ing, 6 pp.
CHINESE, np, Hung-Wei-Ping, No. 6, 6 Dec 1966,
p. 3.
JPRS 40234

Destroy the Liu-Teng Bourgeois Reactionary Line
and Strive for New Victories! by K'uai Ta-fu,
5 pp.
CHINESE, np, Hung-wei-ping, No. 15, 30 Dec 1966,
pp. 2 & 4.
JPRS 40274

"West and East City Inspection Teams", 5 pp.
CHINESE, np, Ping-t'uan Chan-pao, No. 4, 16 Dec
1966, p. 2.
JPRS 40234

Smash the Counterattacks of Bourgeois Reaction-
ary Line, 8 pp.
CHINESE, np, Hung-wei-ping Pao, No. 15, 22 Dec
1966, p. 3.
JPRS 40234

Correctly Implement the Party's Class Line,
6 pp.
CHINESE, np, Ping-t'uan Chan-pao, No. 4, 16 Dec
1966, p. 3.
JPRS 40234

Determine to Defeat Licentious Counter-Attacks
on the Cultural Revolution, 5 pp.
CHINESE, per, Shou-tu Hung-wei-ping, No. 16,
11 Dec 1966.
JPRS 40349

Record of Discussions between Comrade Ch'i Pen-
yu and Leadership of Original Capital Higher
Education Red Guard General Headquarters (Second
Command), 9 pp.
CHINESE, np, Tung-fang-hung, No. 10, 20 Dec
1966, pp. 3 & 4.
JPRS 40349

Far East
Political (Contd)

Vice Premier Hsieh Fu-chih's Seven View Points in Receiving Red Guard Representatives of Peiping Political and Law College on 13 September, 7 pp.

CHINESE, per, Wu-ch'an-chieh-chi Wen-hua Ta-ko-ming Yu-kuan Ts'ai-liao Pien-hui, 28 Oct 1966, Vol II, pp. 25-27.
JPRS 40391

Answers Given by Cultural Revolution Station of the State Council for Difficult Points in the "16 Articles" Raised by Steel Institute, 6 pp.

CHINESE, per, Wu-ch'an-chieh-chi Wen-hu Ta-ko-ming Yu-kuan Ts'ai-liao Pien-hui, 28 Oct 1966, Vol III, pp. 29-31.
JPRS 40391

Interview with Chieh-Fang-Chun-pao About T'an Li-Fu's Speech, 7 pp.

CHINESE, per, Wu-ch'an-chieh-chi Wen-hua Ta-ko-ming Yu-kuan Ts'ai-liao, 28 Oct 1966, pp. 37-40.
JPRS 40391

Danish Socialist Evaluation of Chinese Cultural Revolution, by Gert Petersen, 7 pp.

DANISH, np, SF Bladet, No. 86, 21 Dec 1966, pp. 4-5.
JPRS 39887

Chinese Aid to Pro-Chinese Communists in France, by Branko Lazitch, 5 pp.

FRENCH, per, Est & Ouest, No. 376, Vol. 19, 16-31 Jan 1967, pp. 11-13.
JPRS 40273

Marxism Is Not a Catechism -- French CP Further Attacks Chinese CP, by Jean Kanapa, 5 pp.

FRENCH, np, L'Humanite, 6 Feb 1967, p. 3.
JPRS 40043

Polemic by Belgian CP and Dissidents on Attempted Take-Over in Indonesia, 12 pp.

FRENCH, per, La Voix du Peuple, No. 3, 20 Jan 1967, p. 4; No. 4, 27 Jan 1967, p. 8.
JPRS 40072

The Death of Aidit, Marshal of Lubang Buaja, by Rosamona.

INDONESIAN, bk, Natinja Aidit, Marsekal Lubang Buaja, 1967, pp 6-98; 105-112.
*JPRS/SF-4663

Far East
Political (Contd)

Purpose of International CP Conference Seen As Attack on China, by Mario Quaranta, 5 pp.

ITALIAN, per, Il Comunista, Vol. 3, No. 1-2, Jan-Feb 1967, p. 2.
JPRS 40072

Declaration in Japanese CP Daily on Sixth Anniversary of Congress of Representatives of Communist and Workers' Parties in Socialist Countries, 26 pp.

JAPANESE, np, Akahata, 23 Dec 1966, pp. 2-3.
JPRS 40043

The Revolutionary Will of the Party Members, 3 pp.

KOREAN, per, Kulloja, No. 12, Dec 1966, pp. 2-6.
JPRS 40095

Party Basic Policies on South Korea's Revolution and Her Present Conditions, by Kim Chong-suk, 19 pp.

KOREAN, per, Kulloja, No. 12, Dec 1966, pp. 18-27.
JPRS 40095

The History and Tradition of Revolutionary Publications of the Period of Anti-Japanese Armed Struggle, by Yi Ung-p'il, 14 pp.

KOREAN, per, Kulloja, No. 12, Dec 1966, pp. 43-49.
JPRS 40095

The Importance of the Implementation of Party Policies and Legal Order in a Socialist State, by Pang Kye-mun, 8 pp.

KOREAN, per, Kulloja, No. 12, Dec 1966, pp. 50-54.
JPRS 40095

North Korean Communists Stress Need for Establishing a Marxist-Leninist Party in South Korea, by Kwon Hyok, 13 pp.

KOREAN, per, Kulloja, No. 1, 1967, pp. 8-15.
JPRS 40461

North Korean Communists Emphasize Need for Counteracting Anti-Communism in South Korea, by Pang Hak-se, 14 pp.

KOREAN, per, Kulloja, No. 1, 1967, pp. 16-23.
JPRS 40461

Far East
Political (Contd)

Korean Party Meeting Advocates Proper Combination of Large, Medium and Small Enterprises, by Hong Sung-un, 10 pp.
KOREAN, per, Kulloja, No. 1, 1967, pp. 33-38
JPRS 40461

The Growth and Development of Realistic Ideology in Korea Summarized, by Kim Ch'ang-won, 13 pp.
KOREAN, per, Kulloja, No. 1, Jan 1967, pp. 39-45.
JPRS 40461

Alleged American Ideological Aggression against South Korea Discussed by North Korean Writer, by Yu Kun-dae, 11 pp.
KOREAN, per, Kulloja, No. 1, Jan 1967, pp. 59-64.
JPRS 40461

On the Implementation of the Principle of Party Spirit and the Principle of Historicism in Historical Research, by Kim Sok-hyong, 16 pp.
KOREAN, per, Yoksa Kwahak, No. 6, 20 Nov 1966, pp. 1-7.
JPRS 40223

Soviet Journalist Describes Visit to Communist China, by Boris Vakhtin, 10 pp.
RUSSIAN, per, Zhurnalst, No. 1, Jan 1967, pp. 66-71.
JPRS 40289

Ho Chi Minh Interviewed by Poet Felix Pita Rodriguez, 6 pp.
SPANISH, np, Juventud Rebelde, 4 Feb 1967, p. 9.
JPRS 40205

What the Progressive Chinese Communist Sector Must Do Now, by J. Posadas, 38 pp.
SPANISH, per, Voz Proletaria, 6 Jan 1967, pp. 3-13.
JPRS 39887

Ho Chi Minh's New Message, 1 p.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967.
JPRS 40252

Be Resolved to Fight and Defeat U.S. Aggressors, 12 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 3-11.
JPRS 40252

Far East
Political (Contd)

Praise of the Emulation Soldiers and the Congress of Heroes, 5 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 12-16.
JPRS 40252

Pham Van Dong Calls for Revolutionary Heroism and Complete Victory in Struggle against America and for National Salvation, by Pham Van Dong, 5 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 17-20.
JPRS 40252

Government Report by Vice Premier Le Thanh Ngi at Congress of "Anti-US for National Salvation" Emulation Heroes and Combatants, 21 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 21-45, 49.
JPRS 40252

Japanese Militaristic Imperialism, the Number-One Tool and Accomplice of the U.S. Imperialists in Asia, by Van Hai, 12 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 30-39.
JPRS 40252

District Party Committees Consolidated at Nam Ha, by Nguyen Anh Tuan, 15 pp.
VIETNAMESE, np, Nhan Dan, 20 Jan 1967, p. 3.
JPRS 40295

Experiences of Unit X of the Liberation Armed Forces in Political Work during Combat, by Nguyen Phong, 6 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 16 Feb 1967, p. 3.
JPRS 40430

Strengthen Party Development Activities to Fulfil the Party Mission, by Tran Sam, 6 pp.
VIETNAMESE, np, Thu Do Hanoi, 3 Feb 1967, pp. 1 & 3.
JPRS 40380

Hanoi Municipal Committee Holds Conference to Summarize Propaganda and Training, 5 pp.
VIETNAMESE, np, Thu Do Hanoi, 5 Feb 1967, pp. 1 & 4.
JPRS 40449

Far East
Political (Contd)

Improvement of the Will-to-Win Ideology, 17 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 6-16.
JPRS 40048

Political Regimen in Hanoi, by Nguyen Ba Doan,
6 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 23-26 and 33.
JPRS 40048

Five Important Points in the Political Regimen
Phase in Minh Binh, by Hong Linh, 11 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 27-33.
JPRS 40048

Basic Political Training for New Party Members,
by Chinh Truc, 5 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 34-36.
JPRS 40048

Essence of the Present American "Pacification"
Scheme, by Ha Van, 7 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 37-40.
JPRS 40048

Defeat of Aggressive Policy of America Since
End of World War II Up to Present, by C. K.,
11 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966,
pp. 41-47.
JPRS 40048

Far East
Military

Strategy and Tactics of the Viet Cong.
CHINESE, per, Chung Kuo I Chou, No 810,
1965, pp 14-16.
*FTD-HT-23-654-67

The 30 September Movement in Indonesia:
The Trial of Untung.
INDONESIAN, bk, G-30-S Dihadapan Mahkamah
2 di Djakarta (Perkara Untung), 1966,
pp 1-318.
*JPRS/SF-4659

Secret Soviet Base Trains North Vietnamese
Pilots, by Mikhail Kutazanov, 4 pp.
SPANISH, per, Expreso Central, 8 Mar 1967,
pp. 14-15.
JPRS 40449

Far East
Military (Contd)

The People of Ha-Bac Train for and Fight U.S. Bombing Attacks, by Luu Dong, 5 pp.
VIETNAMESE, np, Nhan Dan, 26 Jan 1967, p. 2.
JPRS 40096

A Great Victory for the North, 5 pp.
VIETNAMESE, np, Nhan Dan, 31 Jan 1967, pp. 1 & 4.
JPRS 40231

Destroy the American Pacification Plot, by Ha Dang, 3 pp.
VIETNAMESE, np, Nhan Dan, 31 Jan 1967, p. 3.
JPRS 40231

Revolutionary Heroism among Vietnam People's Air Force and Air Defense Troops, 9 pp.
VIETNAMESE, np, Nhan Dan, 17 Feb 1967, p. 3.
JPRS 40315

A Visit to a River Rock-Clearing Team in North Vietnam, by Lo Phong, 5 pp.
VIETNAMESE, per, To Quoc, No. 12, 1966, pp. 33-36.
JPRS 40185

Geographic

Journey to Kashgariya and Kun-lun', by M. V. Pertsov.
RUSSIAN, bk, Puteshestviye v Kashgariyu i Kun-lun', Moscow, 1949, pp 3-325.
*JPRS/DC-15147

Sociological

The Persecution I Suffered from the Bourgeois Reactionary Line, by Tu p'ing, 5 pp.
CHINESE, np, Hung-i Chan-pao, No. 6, 28 Nov 1966, p. 2.
JPRS 40440

Far East
Sociological (Contd)

Support the Correct Leadership of the Central Committee's Sub-Committee on the Cultural Revolution, 9 pp.
CHINESE, np, Hung-wei-ping Pao, No. 15, 22 Dec 1966, p. 1.
JPRS 40234

Raise High the Red Banner of Mao Tse-tung's Ideology to Enhance Proletarian Revolutionary, Scientific and Disciplinary Characters, 5 pp.
CHINESE, np, Jen-min Jih-pao, 3 Feb 1967.
JPRS 40440

People's University Looks at Red Guard Headquarters, 7 pp.
CHINESE, np, Tung-fang-hung, No. 6, 9 Dec 1966, pp. 3-4.
JPRS 40274

The Travel Diary of Ryukyu Islands by Takeji Otsuki, 17 pp.
JAPANESE, rpt, Doro Kensetsu, 1966, pp 70-77.
DIA LW 732-66A

The Development of Cultured Language in Our Country, by Han Yong-sun, 9 pp.
KOREAN, per, Kulloja, No. 1, Jan 1967, pp. 46-51.
JPRS 40461

Soviet Historian Claims Mao Tse-tung's Anti-Economism Campaign Idealizes Poverty in China, by V. Karamyshev, 6 pp.
RUSSIAN, np, Sovetskaya Rossiya, 25 Feb 1967, p. 4.
JPRS 40231

Art in the Work of Teaching Adolescents and Children, by Ha Huy Giap, 10 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 64-71.
JPRS 40252

Better Understanding of the Role of Newsreels and Documentaries in the New Situation, by Phan Trong Quang, 10 pp.
VIETNAMESE, per, Hoc Tap, No. 1, Jan 1967, pp. 72-79.
JPRS 40252

Phu-Tho Conference on the Efficient Use of Labor, 3 pp.
VIETNAMESE, np, Nhan Dan, 31 Jan 1967, p. 2.
JPRS 40231

Far East
Sociological (Contd)

Push Cultural Work to Serve Anti-American,
National Salvation Task, by Hoang Minh Giam,
5 pp.

VIETNAMESE, np, Hnah Dan, No. 4708, 28 Feb
1967, pp. 1 & 4.
JPRS 40449

Several Experiences in Building Socialist
Labor Workshop Detachments, by Nguyen Van Tao,
5 pp.

VIETNAMESE, np, Nhan Dan, No. 4708, 28 Feb 1967,
p. 2.
JPRS 40449

Vietnam Women's Federation Launches Emulation
with South Vietnam Women, 5 pp.

VIETNAMESE, per, Pau Nu Vietnam, No. 180,
16 Jan 1967, pp. 10-12.
JPRS 40430

Level III Students, Members of a Heroic Gener-
ation of Youths in a Heroic Era, by Nguyen Duong
Khu, 8 pp.

VIET NAMESE, per, Tap San Giao Duc Cap II-III,
No. 2, 1966-1967, pp. 3-6 & 45.
JPRS 40135

Five Years of In-Service Training by the Higher
School of Communications and Transportation,
by Nguyen Anh Cuih, 8 pp.

VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc,
Oct 1966, pp. 13-22.
JPRS 40295

The Scientific Research Work of the Higher
School of Economics and Planning during 1965-
1966, by Nguyen Duc Chau, 9 pp.

VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc,
Oct 1966, pp. 22-26.
JPRS 40295

LATIN AMERICA

Economic

Government Resolution Establishes Norms for
Cutting and Loading during 1967 Sugar Harvest, by
Basilio Rodriguez Rodriguez, 8 pp.

SPANISH, per, Gaceta Oficial, 30 Dec 1966, pp.
101-104.

JPRS 40251

The Contribution of the Armed Forces to the
Cane Harvest in Matanzas, by Diana Yolanda Diaz,
5 pp.

SPANISH, np, Juventud Rebelde, 24 Jan 1967, p.10.
JPRS 40251

United Nations Development Program Operations
Plan Regional Project for the Development of
Fishing in Central America, Proposal No 1,
SPANISH, rpt, Programa de las Naciones Uni-
dads Para El Desarrollo (Fondo Especial) Plan
de Operaciones Proyecto Regional de Desarrollo
Pesquero en Centroamerica Enmienda No 1, 1966,
35 pp.

ACSI J-1607
ID 2204002567

International Policy of Telecommunications, 34pp.

SPANISH, rpt, Republica de Venezuela,
Memoria del Ministerio de Comunicaciones
Presentada al Congreso Nacional en Sus
Sesiones Ordinarias, 1966,
DIA LN 62-67.

Tests Made with Cuban Sugar Cane Cutting Machine
for Collection Centers, by Gilberto Diaz, 25 pp.

SPANISH, per, Teoria y Practica, Oct 1966,
pp. 10-29.
JPRS 40049

Political

The Proletarian Nature of the Party Determines
Its Class Ideology, 5 pp.

SPANISH, per, Bandera Roja, Dec 1966, p. 2.
JPRS 40072

Latin America
Military

Decree Governing the Revolutionary Armed Forces, by Raul Castro Ruz, 32 pp.
SPANISH, per, Gaceta Oficial, 30 Dec 1966, pp. 105-109.
JPRS 40251

Sociological

Italian Writer Observes Changes in Cuban Department of Philosophy, by Saverio Tutino, 6 pp.
ITALIAN, per, Rinascita, Vol. 23, No. 52, 31 Dec 1966, pp. 17-18.
JPRS 39660

The Great Proletarian Cultural Revolution Causes Panic among Peruvian Revisionists, 6 pp.
SPANISH, per, Bandera Roja, Dec 1966, pp. 2, 6.
JPRS 40072

Public Health Budget for 1967 the Largest Ever, by Luis Baez, 5 pp.
SPANISH, np, Granma, 24 Jan 1967, p. 8.
JPRS 40251

WORLD WIDE

Political

The Building of Communism and the World Revolutionary Process, by A. A. Arzumanyan.
RUSSIAN, bk, Stroitel'stvo Kommunisticheskogo Mirovogo Revolyutsionnogo Protsessa, 1966, pp 5-533.
*JPRS/NY-13700

SCIENTIFIC

Aeronautics

Aircraft Engines, by V. A. Tyutyumov and S. I. Lovinskiy,
RUSSIAN, per, Aviatsionnyye Dvigateli, 1964,
pp 1-4, 15, 58-70, 179-310, 364-365, 366-369.
ACSI J-0761
ID 2204047766

The Dynamics of Flight Stability and Controllability of Flying Vehicles, by I. V. Ostoslavskiy, I. V. Strazheva, 690 p.
RUSSIAN, bk, Dinamika Poleta Ustoychivost' i Upravlyayemost' Letatel'nykh Apparatov, 1965, pp 1-467.
FTD-IT 66-282

A Stand for Testing Gas Jets, by P. A. Kogan and L. V. Luk'yanovskaya,
RUSSIAN, per, Izobreteniya Promyshlennyye Obraztzy Tovarnyye Znaki, No 6, 1966, p 1.
ACSI J-1852
ID 2204009667

Simultaneous Flow of Two Gas Streams Through a Reaction Nozzle, by Ye. D. Sten'kin.
RUSSIAN, per, Iz Vych Ucheb Zaved, Aviat Tekh, No 2, 1966, pp 83-89.
*FTD-IT-67-177

Flight Testing of Aircraft, by M. G. Kotik, 391 pp.
RUSSIAN, rpt, Letnyye Ispytaniya Samoletov, 1965. P910130067-V
NASA TT F-442

Journal Stability in an Aerodynamic Bearing with Peripheral Air Supply, by G. A. Pospelov,
RUSSIAN, per, Prikladnoy Mekhanika, 1963, pp 59-68.
*ACSI J-1785
ID 2204008167

Application of the Theory of Invariance to the Selection of the Parameters of a Flight Control System, by V. A. Bodner, Yu. A. Ryazanov, 13 pp.
RUSSIAN, per, Trudy Vtorogo Vsesoyuznogo Soveshchaniya, v Kieve 29 May-1 June 1962. Teoriya Invariantnosti v Sistemakh Avtomaticheskogo Upravleniya, No 2, 1962, pp 403-411. P100065967
FTD-TT 65-1968

Scientific Aeronautics (Contd)

Aerial Situation Representation Panel, by P. K. Tsarev.
RUSSIAN, per, Vest Protivov Oborony, No 6, 1965, pp 67-70.
*FTD-IT-23-620-67

Study of a Composite Automatic Flight Control System by the Methods of the Theory of Invariance, by L. A. Piontkovskiy, 18 pp.
RUSSIAN, rpt, Vsesoyuznoye Soveshchaniye po Teorii Invariantnosti i Yeye Primeneniyu v Avtomaticheskikh Sistemakh, 2D, 1962, pp 270-282. P100102167
FTD TT 65-1962

Development of the SA-330,
FRENCH, per, Aviation Magazine - International, 1 Feb 1967, pp 50-51.
*ACSI J-2219
ID 2204016067

Measurement of Low Frequency Vibrations in Big Helicopters and Their Transmission to the Pilot, by H. Seris, R. Auffret.
FRENCH, rpt, Papers Presented at the 22nd Meeting of the AGARD Aerospace Medical Panel, 245-257, September 1965.
NASA TT F-471

Air Breathing Propulsion in Aerospace Transport, by J. Dupin.
FRENCH, rpt, Paper Presented at the Royal Aeronautical Society Centenary Congress in Conjunction With the Fifth Congress of the International Council of the Aeronautical Sciences, London 12-16 September 1966, ICAS Paper No 66-28.
NASA TT F-10,697

Comprehensive List of Registered Aircraft as of 1 March 1966, 53 pp.
JAPANESE, rpt, Aerospace Annual, June 1966, pp 54-67; 72; 75; 76; 81; 82; 84; 86; 87; 92; 93; 120; 336; 345.
DIA LN 716-66

Aviation Exhibition
POLISH, per, Skrzydla Polska, 12 Mar 1967.
DIA 1878003167

Scientific
Agriculture

Uptake and Retention of Nutrients by Sugar Beet Depending on the Level of Nutrition, by S. M. Gurevich and I. I. Boronina, RUSSIAN, per, Agrokhimiya, No 10, 1964, pp 73-81.
NLL RTS 3249
(On Loan or Purchase)

The Principles of Distribution of Some Growth Forms of Arboreal Plants, by I. L. Krylova, 11 pp.
RUSSIAN, per, Botanicheski Zhurnal, Vol 49, No 9, 1964, pp 1237-1247.
ETC TT-65-20427

The Growth of Plants in Artificial Conditions as a Method of Revealing Their Potential Productivity, by B. S. Moshkov, RUSSIAN, per, Fotosintez i Voprosy Produktivnosti Rasteniy AN SSSR, 1963, pp 138-148.
NLL RTS 3459
(On Loan or Purchase)

The Significance of Heterozygosity and Ontogenetic Adaptions in the Retention of Typicality in Clonal Varieties of Strawberries, by T. S. Fadeyeva, RUSSIAN, per, Issledovaniya po Genetike Leningrad Univer., Vol II, 1964, pp 111-120.
NLL RTS 3486
(On Loan or Purchase)

The Chemical Industry Must Share Responsibility for Correct Production and Supply of Fertilizer, by A. Artyushin, 5 pp.
RUSSIAN, np, Izvestiya, 7 Mar 1967, p. 5.
JPRS 40415

The Virus Nature of Reversion in Black Currant Plantations, by M. S. Dumin, RUSSIAN, per, Izv. Timirjazevsk. S-kh Ak., No 4, 1964, pp 138-152.
NLL RTS 3397
(On Loan or Purchase)

The Use of Mycorrhiza at Plantings of Oak Acorns Under the Arid Conditions of the Saratov Region, by I. V. Krasovskaya, A. D. Smirnova, 12 pp.
RUSSIAN, per, Les i Step, Vol 22, No 2, 1950, pp 29-37.
CFSTI TT-66-51081

Scientific
Agriculture (Contd)

Mechanical and Microaggregate Composition of Soils Methods of Investigation, by N. A. Kachinskiy, 134 pp.
RUSSIAN, bk, Mekhanicheskiy i Mikroagregatnyi Sostav Pochvy, Metody Ego Izucheniya, 1958.
CFSTI TT 66-51123

Improving of Plant Nutrition with Manganese Microfertilizers, by P. A. Vlasjuk, RUSSIAN, per, Mikroelem. Sel. Khoz. Medits., 1956, pp 111-124.
NLL RTS 3527
(On Loan or Purchase)

Petroleum Growth-Stimulating Substance - used to Increase the Productivity of Pigs, by A. A. Aliev, et al, RUSSIAN, per, Svinovodstvo, No 8, 1962, 31 pp.
NLL RTS 3017
(On Loan or Purchase)

The Effect of Boron, Molybdenum and Manganese on Some Indices of Tomato Quality, by T. B. Darkanbayev and M. K. Lysenko, et al, RUSSIAN, per, Trudy Inst. Botaniki Ak Nauk Kazakh SSR, Vol XX, 1964, pp 144-155.
NLL RTS 3489
(On Loan or Purchase)

Selection and Study of Carrots Hybrids, by M. K. Litvinova, RUSSIAN, per, Trudy Plodov. Inst. Im. I. V. Michurina, No 12, 1961, pp 65-71.
NLL RTS 3562
(On Loan or Purchase)

Possibilities of Producing Black Currant Varieties Resistant to Big Mite, by N. M. Pavlova, RUSSIAN, per, Trudy Priklad. Bot. Genet. Selekt., Vol XXXVI, No 3, 1964, pp 94-102.
NLL RTS 3702
(On Loan or Purchase)

Soil Protozoa and Methods of Their Detection, by Yu. G. Gel'tser, RUSSIAN, per, Uspekhi Sovremennoi Biologii, Vol LIII, No 2, 1962, pp 237-245.
NLL RTS 3481
(On Loan or Purchase)

Scientific
Agriculture (Contd)

One Hundred Fiftieth Anniversary of the Khar'-kov Agricultural Institute, 5 pp.
RUSSIAN, per, Zashchita rasteniy, No. 12, 1966, pp. 18-21.
JPRS 40253

Soils, Chapter I, by V. I. Popov, 9 pp.
RUSSIAN, per, Zemlyanye Raboty v Sel'skom Stroitel'stve, 1956, pp 3-15.
CFSTI TT 66-51124

Effect of Mineral Nutrition Conditions on Change of Properties of Plants, by A. S. Kruzhilin and Z. M. Shvedskaya, RUSSIAN, per, Zhurnal Obshchei Biologii, Vol XVII, No 6, 1956, pp 436-442.
NLL RTS 3364
(On Loan or Purchase)

Soil Invertebrates as a Factor of Soil Fertility, by M. S. Gilyarov, 9 pp.
RUSSIAN, per, Zhur Obshchei Biologii, Vol 21, No 2, 1960, pp 81-88.
EPC TT-65-20424

On the Relations Between Soil-Dwelling Protozoans and the Rhizosphere of Some Agricultural Crops, by Yu. G. Gel'tser, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XL, No 9, 1961, pp 1304-1313.
NLL RTS 3517
(On Loan or Purchase)

Meeting of the Presidium of the Bulgarian Academy of Agricultural Sciences, by Zl. Akhtarov, 5 pp.
BULGARIAN, per, Selskостopanska Nauka, No. 4, Oct-Dec 1966, pp. 85-88.
JPRS 40376

Development of Animal Husbandry in the Private Plots of Cooperative Farmers, and the Fodder Resources on These Plots, by Dimitur Petrov, 9 pp.
BULGARIAN, per, Zhivotnovodstvo, No. 1, Jan 1967, pp. 40-44.
JPRS 40376

Development of the Wheat Rust Disease in China and the Existing Problems in Its Prevention and Research Works, CHINESE, per, Chih Ping Chih Shih, Vol II, No 4, 1958, 56 pp.
ACSI I-3189
ID 2204015067

Scientific
Agriculture (Contd)

Journal for Scientific Agricultural Research. 114 pp.
CROATIAN, per, Arhiv za Poljoprivredne Nauke i Tehniku, Vol 18, No 61, 1965, pp 3-158.
CFSTI TT-65-50404/3

Land Amelioration and Intensification of Agricultural Production, by Nicolae Giosan, 6 pp.
RUMANIAN, per, Lupta de Clasa, Vol 47, No. 1, Jan 1967, pp. 16-30.
JPRS 40298

Importance and Development of Pomiculture in Bulgaria Discussed by Yugoslav Scientist, by Stanisa A. Paunovic, 6 pp.
SERBO-CROATIAN, per, Poljoprivreda, Vol. 14, No. 12, Dec 1966, pp. 49-52.
JPRS 40298

Agricultural Hydraulics, by Israel Tamayo, 11 pp.
SPANISH, per, Teoria y Practica, Oct 1966, pp. 30-37.
JPRS 40049

Annual Report - Activity of Forestry Department, TAI, rpt, 1963.
*ACSI J-2295
ID 2204016967

Agricultural Advance Series, VIETNAMESE, per, Cai-Tien Nong-Ngheip, Ser 5, No 1, 1966.
*ACSI J-2013
ID 2204007267

Protecting the Winter Rice from the Cold in the Mountainous Areas, by Nguyen Mong, 5 pp.
VIETNAMESE, per, Khoa Hoc Ky Thuat Nong Nghiep, No. 58, Oct 1966, pp. 591-593.
JPRS 40188

Six Years of Development of the Spring Rice Harvest in Ha Tay, by Nguyen Ngoc Xuan, 8 pp.
VIETNAMESE, per, Khoa Hoc Thuat Nong Nghiep, No. 59, Nov 1966, pp. 661-664.
JPRS 40188

Materials Management in Agricultural Enterprises, by Lau Quy Thoai and Ngo Dinh Giao, 10 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No. 35, Dec 1966, pp. 23-28.
JPRS 40205

Scientific
Agriculture (Contd)

Building a Large and Powerful Collective Animal Husbandry Branch, by Nguyen Thu Son, 16 pp.
VIETNAMESE, per, Nguyen Cuu Kinh Te, No. 36, Dec 1966, pp. 29-36.
JPRS 40205

Contributing a Few Ideas about the Propaganda Assignment during the Winter-Spring 1966-1967 Crop Production, by Nguyen Binh Chu, 9 pp.
VIETNAMESE, per, Tuyen Huan, No. 12, 1966, pp. 17-22.
JPRS 40048

Astronomy & Astrophysics

Report 4: Instability of Periodic Motions Near Collinear Points of Liberation in the Restricted Problem of Three Bodies, by G. N. Duboshin,
RUSSIAN, per, Astronomicheskiy Zhurnal, Vol XV, No 3, 1938, pp 209-216. P200103067
RSIC-647

Study of Eight Open Clusters from the Proper Motions and Photometric Characteristics of the Stars, by V. V. Lavdovskiy,
RUSSIAN, per, Izv. Glav. Astron. Obs. v Pulk., Vol XXII, No 6, 1965, pp 138-218.
NLL RTS 3372
(On Loan or Purchase)

The Testers, by D. Pipko, 26 pp.
RUSSIAN, per, Nauka i Zhizn', No 4, 1966, pp 42-52. P100090167
FTD-HT-66-352

Phase Relationships in Light Modulation by Means of the Linear Electrooptic Effect, by L. M. Barkovskiy, F. I. Fedorov, 10 pp.
RUSSIAN, per, Zhur Prikl. Spek, Vol III, No 5, 1965, pp 449-455. P100090067
FTD-HT-66-657

Measurement of the Electrooptic Effect in Crystals, by Yu. V. Shalbin, Yu. V. Pisarevskiy, 6 pp.
RUSSIAN, per, Zhur Prikl. Spek, Vol III, No 5, pp 463-467. P100090067
FTD-HT-66-657

Scientific
Astronomy & Astrophysics (Contd)

Dynamics of Transport of Fission Products by Atmospheric Precipitations, by V. Santholzer, 6 pp.
CZECH, per, Jaderna Energie, Vol 10, 1964, pp 251-253.
CFSTI TT-66-12460

Atmospheric Sciences

A Method of Making Actinometric Observations from a Helicopter, by S. P. Malevskiy-Malevich,
RUSSIAN, per, Fizika Pogranichnogo Sloya Atmosfery, Trudy, Vol CLXVII, 1965, pp 155-160.
ACSI J-1784
ID 2204008067

The Problem of Fundamental Improvements of Climate, by P. M. Borisov,
RUSSIAN, per, Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, Vol XCIV, No 4, 1962, pp 304-318.
NLL KTS 3000
(On Loan or Purchase)

Energy Transformation in the Atmosphere of the Northern and Southern Hemisphere and Interaction of Processes in Both Hemispheres, by Ye. P. Borisenkov,
RUSSIAN, per, Meteorologicheskii Issled. Sb. Stat. Rezult. po Mezhdun. Geofiz. Proekt., No 9, 1965, pp 5-13.
NLL 6C15.49F 1966 (396)

Influence of Tropospheric Processes on Changes in the Temperature Field and Circulation in the Stratosphere, by Kh. P. Pogosyan,
RUSSIAN, per, Meteorologicheskii Issled. Sb. Stat. Rezult. po Mezhdun. Geofiz. Proekt., No 9, 1965, pp 30-51.
NLL 6015.49F 1966 (397)

Process in the Stratosphere Based on Rocket Sounding Data, by L. A. Ryzanova, et al,
RUSSIAN, per, Meteorologicheskii Issled. Sb. Stat. Rezult. po Mezhdun. Geofiz. Proekt., No 9, 1965, pp 58-63.
NLL 6015.49F 1965 (399)

Scientific
Atmospheric Sciences (Contd)

Some Problems of Radioactive Thermal Exchange in the Cloudy Atmosphere, by F. N. Shekhter, RUSSIAN, per, Trudy Glavnoy Geofizicheskoy Observatoriy, No 187, 1966, pp 82-103.

*ACSI J-2018
ID 2204011867

The Influence of Radiation Upon Changes in Meteorological Conditions of the Lower Atmospheric Layers, RUSSIAN, per, Trudy Glavnoy Geofizicheskoy Observatoriy, No 187, 1966, pp 151-171.

*ACSI J-2019
ID 2204011967

The Pulsation Spectra of the Vertical Component of Wind Velocity and Their Relations to the Micrometeorological Conditions, by A. S. Gurvich, RUSSIAN, per, Tr. Inst. Fiz. Atmosfery AN SSSR, No 4, 1962, pp 101-136.

NLL 7773.757 B (T-R-509)

Anomaly of the Annual Variation of the F2 Layer as a Function of the Entry of Solar Radiation Into the Earth's Atmospheric, by A. I. Likhachev, 11 pp.

RUSSIAN, per, Trudy Inst Sibirskiy Fiziko-Tekh, No 41, 1962, pp 62-67. P100092267
FTD-MT-65-292

The Connection Between the Increase of Diurnal Ionization of the F2 Layer and the Entry of Solar Energy Into the Atmosphere, by A. I. Likhachev, 6 pp.

RUSSIAN, per, Trudy Inst Sibirskiy Fiziko-Tekh, No 41, 1962, pp 68-71. P100092267
FTD-MT-65-292

The Distribution of the Standard Deviations of 500-mb Monthly Mean Contour Heights and Its Application to Long-Range Forecasting Over Eurasia, by Shu Kuo-Chang, 15 pp. CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXV, No 3, 1965, pp 333-337. P922095167
APCRL Emu-66-87

A Four Level Baroclinic Model of the Steady Perturbations in the Westerlies, by Ch'en Shou-chun, 12 pp. CHINESE, per, Ch'i-hsiang Hsueh-pao, Vol. 35, No. 3, Aug 1966, pp. 357-363.
JPRS 39684

Scientific
Atmospheric Sciences (Contd)

Expansion of Optical Waves in the Atmosphere, by M. Miler, 20 pp. CZECH, per, Jemna Mechanika a Optika, No 10, 1965, pp 313-317. P100090967
FTD-MT-66-341

Equation of the Tendency of Atmospheric Stability, by Stanislav Brandejas. CZECH, per, Meteorologicke Zpravy, No 5, 1965, p 137.
*FTD-MT-23-639-67

A Climatic Reaction in the Sahavien Climate, by J. Gayanoll. FRENCH, per, Bulletin Mensuel Societe Medecine Militaire Francaise, Vol LV, 1961, pp 302-311.
*NASA TT F-10923

Sociologic Basis of a Climatisation to Heat, by R. Henane. FRENCH, per, Revue des Corps de Sante des Armees, Vol VII, 1966, pp 293-318.
*NASA TT F-10924

Relationships Between the Optical and Electrical Properties of Ionospheric Layers, by G. Dietze, G. Kohl. GERMAN, per, Zeit fur Meteorologie, Vol XVIII, No 5-7, 1966, pp 212-218.
*FTD MT 23-676-67

Some Actual Problems in Numerical Weather Forecasting, by Krzysztof Haman, POLISH, per, Przeglad Geofizyczny, Vol IX (XVII), No 1, 1964, pp 25-51.
CFSTI TT 65-50382

Behavioral & Social Sciences

Algorithms for Teaching an Open Optimal Control System to Recognize Situations Correctly by Yu. M. Chakhovyy, et al. RUSSIAN, per, Avtomatika, No 4, 1965, pp 44-54.
*FTD MT 67-443

Cybernetics and Instruction, by A. I. Berg, 10 pp. RUSSIAN, per, Priroda, No. 11, Nov 1966, pp. 15-20.
JPRS 39524

Scientific
Behavioral & Social Sciences (Contd)

Pattern Recognition Problem by
V. I. Varshavskiy, V. A. Sokovskiy.
RUSSIAN, per, Sb Kibernetika i Elektronovychisl
Tekh, (M.L. 12-26).
*FTD HT 67-444

Trainer Instructor, 5 pp.
RUSSIAN, per, Starshina Serzhant, No 9(61)
September 1965. pp 28-29.
DIA

Chad Said To Be Pilot Country in Human Sciences
Research, by Robert Nassal, 5 pp.
FRENCH, per, France Eurafrigue, Vol. 19, No.
181, Feb 1967, pp. 43-45.
JPRS 40457

Biological & Medical Sciences

The Status of and Development Prospects For
Scientific Research in Cybernetics at the
Academy of Sciences of the Ukrainian SSR,
11 pp.
RUSSIAN, per, Ak Nauk URSR, Kiev. Dopovidi,
No 1, 1966, pp 129-132.
CFSTI TT-66-61779

The Production and a Comparative Study of
the Racemate and the Stereoisomers of
Cycloserin, by G. Ya. Kivman and
N. M. Smol'nikova,
RUSSIAN, per, Antibiotiki, Vol VIII, No 9,
1963, pp 845-860.
NLL RTS 3332
(On Loan or Purchase)

Isomerization of Phenoxymethyl-Penicillin
Into Phenoxymethyl-Penicillanic Acid, by
I. M. Elinova, A. S. Kholchlov, 16 pp.
RUSSIAN, per, Antibiotiki, Vol 11, No 2,
1966, pp 99-107.
SIA TT-66-1230

The Effect of an Abrupt Change in Diet on
Certain Aspects of an Animal's Complex-
Nervous Activity, by Yu. P. Frolov,
RUSSIAN, per, Arch. Biol. Nauk, Vol XXI,
1922, pp 159-170.
NLL 3569 RTS
(On Loan or Purchase)

Scientific
Biological & Medical Sciences (Contd)

Changes in the Synapses in the Optic Cortex
Associated With Blood Loss, by T. I. Entin.
27 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistologii i
Embriologii, Vol 48, No 6, 1965, pp 3-11.
CFSTI TT-66-61069

Morphogenetic Apparatus of the Scleral
Ossicles of the Chick Embryo Eye, by V. F.
Puchkov, 14 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistologii
Embriologii, Vol 40, No 6, 1965, pp 11-21.
CFSTI TT-66-61743

The Secondary Immunologic Response: A Study of
the Dynamics of the Appearance and the Morphology
of Antibody-Containing Cells by Means of the
Indirect Method of Coons, by K. A. Lebedev. 21 pp
RUSSIAN, per, Arkhiv Patologii, Vol 27, No 5,
1965, pp 30-36.
CFSTI TT-66-61073

Histological Analysis of Rat Rhabdomyosar-
coma Obtained in Implantation of Cells be-
coming Malignant in Vitro, by YU. B. Vakhtin
I. N. Shvenberger,
RUSSIAN, per, Arkhiv Patologii, Vol XXVII,
No 8, 1965, pp 49-55.
NLL RTS 3391
(On Loan or Purchase)

Atlas of the Invertebrates of the Far
Eastern Seas of the USSR, by E. N. Pavlovskiy,
457 pp.
RUSSIAN, bk, Atlas Bespozvonochnykh
Dal'nevostochnykh Morei SSSR, 1955.
CFSTI TT 66-51067

The Bacteriological Weapon and Defense
From It, by A. M. Arkhangel'skiy.
RUSSIAN, bk, Bakteriologicheskoye Oruzhiye i
Zashchita ot Nego, 1967, pp 1-196.
*JPRS/NY-13699

Position of Stimulus, Form of Electroretinogram
and Distribution of Potentials in Depth in the
Retina, by N. F. Podvigin. 25 pp.
RUSSIAN, per, Biofizika, Vol 10, No 4, 1965,
pp 681-688.
CFSTI TT-66-61309

Effect of Stress on Order-Disorder Transfer
in Untreated Collagen Fibers, by
S. Ya. Frenkel', et al,
RUSSIAN, per, Biofizika, Vol X, No 5, 1965,
pp 735-742.
HEN NIH 3-22-67

Scientific
Biological & Medical Sciences (Contd)

Study of the Biochemical Properties of
Finely-Ground Wheat Grain During the Process
of Dehydration by the Heated Air Method,
by I. E. Mambish,
RUSSIAN, per, Biokhimiya Zerna, 1960,
pp 121-161.
NLL RTS 3433
(On Loan or Purchase)

Biology and Economic Importance of Gulls and
Terns of Southern-USSR Water Bodies, by
T. L. Borodulina,
RUSSIAN, bk, Biologiy i Khozyaistvennoe
Znachenie Chaikovyykh Ptits Yuzhnykh
Vodoemov SSSR, 1960, pp 1-118.
CFSTI TT 66-51054

Differentiation of the Pathogen of Anthrac-
nose of Currant and Gooseberry, by
T. D. Zakhryapina,
RUSSIAN, per, Botanicheskiy Zhurnal, Vol
XLIV, No 6, 1959, pp 836-843.
NLL RTS 3098
(On Loan or Purchase)

The Penetration of Chlorinated Organic Insecti-
cides Through the Roots and Their Translocation
Within the Plant, by G.A. Odumanova-Dunaeva,
K. I. Kozlova. 7 pp.
RUSSIAN, per, Botanicheskii Zhurnal, Vol 49,
No 9, 1964, pp 1272-1278.
ETC TT-65-23234

Preventing Insect Damage to Herbarium Collec-
tions, by K. P. Popov. 7 pp.
RUSSIAN, per, Botanicheskii Zhurnal, Vol 50, No 3
1965, pp 368-370.
ETC TT-65-25352

The Influence of Transplantation of Homologous
Hemopoietic Cells on the Synthesis of Anti-
bodies in Irradiated Animals, by A.S. Shevelev.
12 pp.
RUSSIAN, per, Byulleten Eksperimentalnoi Biologii
i Meditsiny, Vol 59, No 4, 1965, pp 77-81.
CFSTI TT-66-61077

Variations in Respiration Process During
Gamma Radiation of Plant Tissue, by
I. P. Petrash, L. V. Metlitskiy.
RUSSIAN, per, Dokl Akad Nauk SSSR,
Vol CLXX, No 3, 1966, pp 711-713.
*NASA TT F-462

Scientific
Biological & Medical Sciences (Contd)

Pharmacology of the New Loline Alkaloid
and of Its Derivative, by V. A. Karimov,
I. K. Kamilov, 5 pp.
RUSSIAN, per, Dok Ak Taik Uzbek SSR, No 12,
1961, pp 43-47.
CFSTI TT 66-51137

Brief Description of the Radioprotective Action
of Mercaptoamines, by V. I. Kuznetsov and L. I.
Tank, 10 pp.
RUSSIAN, monograph, Farmakologiya i klinicheskoye
primeneniye aminotiolov, 1966, pp. 138-148
JPRS 40365

Effect of Dithiocarbamic Acid Derivatives on the
Activities of Cytochrome Oxidase, Succinate De-
hydrogenase and Catalase, by M. V. Korablev,
R. P. Simorot. 9 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya,
Vol 28, No 2, 1965, pp 234-238.
CFSTI TT-66-61314

Prevention of Experimental Hypertension by
Chlorpromazine at High Altitudes, by M. A. Aliev.
6 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya,
Vol 28, No 3, 1965, pp 282-284.
CFSTI TT-66-61315

Antibacterial Activity of Nitrofuranes With Simple
Substituents, by V. N. Solov'ev, G. A. Konyayev,
10 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya,
Vol 28, No 3, 1965, pp 316-320.
CFSTI TT-66-61316

Pharmacological Activity of Some Aminoethyl
Esters of Benzodioxane-1,4, by G. Polukerdas,
M. Repchite. 13 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya,
Vol 28, No 5, 1965, pp 603-608.
CFSTI TT-61317

Toxic Effect of High Oxygen Pressures on
the Animal Organism, by I. M. Ivanov,
B. D. Kravchinskiy, et al, 22 pp.
RUSSIAN, per, Fiziologicheskii Zhurnal,
Vol XVII, No 5, 1934, pp 1019-1034.
P100066767
FTD TT 65-940

Scientific
Biological & Medical Sciences (Contd)

Syntheses of Highly Active Antimicrobial Drugs, Salicylanilide and Its Halogen Derivatives, by G. V. Kulik, I. O. Vasilevska, 12 pp.
RUSSIAN, per, Farmatsevtichnyi Zhurnal, Vol 18, No 1, 1963, pp 12-12.
CFSTI TT-66-12533

The Special Features of Adaptation of Interceptors in the Stomach, by V. M. Shirokaya, RUSSIAN, per, Fiziolog. Zhurnal, Vol XXXVII, No 5, 1951, pp 606-613.
NLL RTS 3484
(On Loan or Purchase)

The Rumination Center and Its Functional Connexions in Cattle, by P. M. Kuz'min, RUSSIAN, per, Fiziologicheskii Zhurnal SSSR in Sechenova, Vol XLIX, No 3, 1963, pp 346-352.
NLL RTS 2112
(On Loan or Purchase)

Interceptive Electrical Reactions in Cortex Before and After Cord Transection, by I. A. Bulygin, K. A. Basthurin, et al. 20 pp.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR, Vol 51, No 8, 1965, pp 926-935.
CFSTI TT-66-61322

Physiological Evaluation of the Average-Reference Technique for Recording Potentials, by E. V. Glivenko, T. A. Korolkova, et al. 25 pp.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR, Vol 51, No 8, 1965, pp 943-951.
CFSTI TT-66-61302

Adaptation in Renal Receptors: An Electro-Physiological Investigation, by Yu. L. Pines. 17 pp.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR, Vol 51, No 9, 1965, pp 1116-1122.
CFSTI TT-66-61323

Toxic Effects of 2,2,4-Trimethyl-1,2-Dihydro-Quinoline (Acetonanyl), A New Resin Antioxidant From the Industrial Hygiene Aspect, by G. Ya. Kelman. 13 pp.
RUSSIAN, per, Gigiena Truda i Professionalnye Zabolevaniya, Vol 9, No 8, 1965, pp 32-37.
CFSTI TT-66-61324

Scientific
Biological & Medical Sciences (Contd)

Peculiarities of the Operational Period in Patient Suffering from the Morgagni-Adams-Stokes Syndrome, by Yu. I. Bredikis, RUSSIAN, per, Grudnaya Khirurgiya, No 3, 1964, pp 3-9.
NLL RTS 3553
(On Loan or Purchase)

The Infectious Process: Pathogenesis, Experimental Therapy, 41 pp.
RUSSIAN, per, Infektsionnyy Protsess: Patogenez, Eksperimental'naya Terapiya, 1966, pp. 23-35, 133-137, 146-163, 182-187.
JPRS 40254

Ion Exchange Membranes for Desalination and Their Properties, by A. B. Pashkov. RUSSIAN, rpt, Ionitovye Membrany Dlya Opresseniya Solenikh Vod i Ikh Svoistva, 1966.
*AEC

Air Ionization and Its Hygienic Importance, by A. A. Minkh, 106 pp.
RUSSIAN, mono. Ionizatsiya Vozdukh i Ee Gigienicheskoe Znachenie, Moscow, 1958.
CFSTI TT-66-60501

Studies of Marine Fauna: Biological Report of the Soviet Antarctic Expedition (1955-1956) 322 pp.
RUSSIAN, mono. Issledovaniya Fauny Morei: Rezultaty Biologicheskikh Issledovaniy Sovetskoi Antarkticheskoi Ekspeditsii (1955-1956), Vol 1, Moscow/Leningrad, 1962.
CFSTI TT-66-51361

The Food Selectivity of *Calanus Helgolandicus* (Claus), by T. S. Petipa, RUSSIAN, rpt, Issledovaniya Planktona Chernogo i Azovskogo Morei, 1965, pp 102-110.
NLL 9022.56 (72)

The Comparative Pathology of the Skin of Mammals When Bitten by Ticks. The Effect of Biting by the Tick *Hyalomma* on the skin of the Bull, Cow, Goat and Dog, by E. N. Pavlovskiy, S. P. Alfeyeva, 16 pp.
RUSSIAN, per, Is Ak Nauk, Seriya Biolog., Vol 6, 1949, pp 709-715.
NLL 25a RTS-2891
HCH-203 145

Scientific
Biological & Medical Sciences (Contd)

Study of the Role of Ticks on the Genera Dermacentor and Haemaphysalis in Transmission of Brucellosis, by A. A. Volkova, R. V. Grebenyuk, A. F. Timofeyev, R. S. Galiyev, 23 pp.

RUSSIAN, per, Iz Ak Nauk Kirgizskoi SSR, Frunze, Seriya Biologicheskikh Nauk, Vol 2, No 7, 1960, pp 5-24.
CFSTI TT-66-60976

The Utilization of Phosphorus Isotope P32 for the Study of the Role Played in Plant Nutrition by Individual Roots and Various Parts of a Root System, by I. I. Kolosov. 39 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 1, 1964, pp 95-109.
CFSTI TT-66-61553

Diurnal Periodicity of Spermatogenesis Stages in Reindeer, by E. K. Borozdin,
RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya Ak Nauk SSSR, Seriya Biologo-Meditsinskikh Nauk, No 4, Part 1, 1964, pp 101-105.
CFSTI TT 67-51234

Stenosing Coronary Atherosclerosis in Dogs, by T. A. Sinitsyna, et al,
RUSSIAN, Per, Kardiologiya, Vol I, 1961, pp 25-30.
HEW NIH 3-32-67
(Available on Loan)

Cybernetics Systems With Combination Control Guidance, by A. G. Ivakhnenko.
RUSSIAN, bk, Kiberneticheskiye Sistemy s Kombinirovannym Upravleniyem, 512 pp.
*PTD-INT-23-578-57

The Analgesic Treatment by Means of Narcosis by B. V. Petrovskiy,
RUSSIAN, per, Kirurgiya, Vol XXXVIII, No 4, 1962, pp 6-12.
NLL RTS 3545
(On Loan or Purchase)

Adrenal Cortical Function in Hypertensive Patients Treated With Reserpine and Ismelin, by Ya. M. Miloslavskiy. 18 pp.
RUSSIAN, per, Klinicheskaya Meditsina, Vol 43, No 5, 1965, pp 103-108.
CFSTI TT-66-61082

Scientific
Biological & Medical Sciences (Contd)

Role of the Adrenal Cortex in the Pathogenesis of Acute Leukemia, by L. N. Samoilova. 25 pp.
RUSSIAN, per, Klinicheskaya Meditsina, Vol 43, No 6, 1965, pp 98-104.
CFSTI TT-66-61328

Sialic Acid Metabolism in Peptic Ulcer and Gastric Carcinoma Cases, by P. G. Narubanov. 17 pp.
RUSSIAN, per, Klinicheskaya Meditsina, Vol 43, No 7, 1965, pp 53-58.
CFSTI TT-66-61329

The Part Played by Birds in Circulation of Tickborne Encephalitis Virus, by R. L. Naumov, E. N. Levkovich, O. E. Rzhakhova, 20 pp.
RUSSIAN, per, Meditsinskaya Parazitologiya i Parazitarnye Bolezni, Vol 32, No 1, 1963, pp 18-29.
CFSTI TT-66-60946

Parasites of the Fish of the Barents Sea, by Yu. I. Polyanskiy,
RUSSIAN, bk, Materialy po Parazitologii Ryb Severnykh Morei SSSR. Parazity ryb Barentsova Morya, 1955, pp 1-145.
CFSTI TT 66-51047

Changes in Thyroid Function Associated With X-ray Therapy of Cancer of the Face, by L. A. Yudin, B. A. Konnov. 14 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol 10, No 5, 1965, pp 46-51.
CFSTI TT-66-61325

Serum Lipoproteins in I(131)-Treated Thyrotoxicosis, by V. N. Slavnov. 12 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol 10, No 5, 1965, pp 55-59.
CFSTI TT-66-61326

Radiosensitizers and Methods of Increasing Radiosensitivity, by M. Tyubiana, E. Frindel. 45 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol 10, No 8, 1965, pp 55-67.
CFSTI TT-66-61308

Suppression and Recovery of the Power of Peripheral Nerve to Regenerate After Irradiation, by G. S. Strelin, V. I. Evsyukov, 17 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol 10, No 8, 1965, pp 67-73.
CFSTI TT-66-61291

Scientific
Biological & Medical Sciences (Contd)

Dynamics of Cellular Activity in Subcortical Structures of the Human Brain During Some Motor and Psychological Tests, by A. I. Trokhachev, RUSSIAN, rpt, Mezhdunarodnyi Simpozium Glibokie Struktury Golovnogo Mozga Cheloveka v Norme i Patologii, 1966, pp 157-160. HEW NIH 3-33-67

The Antimicrobial Properties of Salicylanilide and Its Derivatives, by G. V. Kulik, I. O. Vasilevska, 25 pp. RUSSIAN, per, Mikrobiologichnyi Zhurnal, Vol 26, No 4, 1964, pp 83-85. CFSTI TT-66-12532

Methods of Studying Soil Amoebae, by Yu. G. Gel'tser, RUSSIAN, per, Mikroorgan V Sel'skokhoz., 1963, pp 441-458. NLL RTS 3465 (On Loan or Purchase)

Modeling of Thought Processes and Mental Activity, Nikolay Mikhaylovich Amosov. RUSSIAN, bk, Modelirovaniye Myshleriya i Psikhiki, 1965, 302 pp. *FTD-HT-23-656-67

Some Filtration Characteristics of Fresh-water Molluscs, by G. P. Kondratyev. 8 pp. RUSSIAN, per, Nauchnye Doklady Vysshei Shkoly. Biologicheskie Nauki, No 1, 1963, pp 13-16. CSIR-495 CFSTI TT-65-23240

Chlorella, by V. Uptis, RUSSIAN, per, Nauka i Tekhnika, No 2, 1965, pp 10-13. Army Mat Cmd SI-7-75-603

Operation "Ore" - From the Memoirs of Acad. L. A. Zil'ber, 19 pp. RUSSIAN, per, Nauka i Zhizn', No. 12, Dec 1966, pp. 55-63. JPRS 40180

Genus Cakile Mill, by E. Pobedimova, RUSSIAN, per, Novosti Sistematika Vysshikh Rasteniy, 1964, pp 90-128. NLL RTS 3367 (On Loan or Purchase)

Scientific
Biological & Medical Sciences (Contd)

The Distribution of Benthic Foraminifera in the Pacific Ocean, by Kh. M. Saidova. 11 pp. RUSSIAN, per, Okeanologiya, Vol 5, No 1, 1965, pp 99-110. ETC TT-65-22211

Keys to the Insects of the European USSR, Vol I. Apterygota, Palaeoptera, Hemimetabola, 1214 pp. RUSSIAN, bk. Opredelitel' Nasekomykh Evropeiskoi Chasti SSSR, Vol I, Nizshie, Drevnekrylye, s Nepolnym Prevrashcheniem, Moscow, 1964. CFSTI TT 66-51068

Starlings Nesting in Turkmenia and Their Practical Significance, by A. K. Rustamov, RUSSIAN, per, Ornitologiya, Vol CXCVII, 1958, pp 103-112. NLL RTS 3676 (On Loan or Purchase)

On the Ecology of Mynahs in Repetek, by Yu. F. Sanozhenkov, RUSSIAN, per, Ornitologiya, Vol V, 1962, pp 177-182. NLL RTS 3277 (On Loan or Purchase)

The Reaction of Ornithodoros Papillipes Dir. To Some Physical Factors of the Environment, by E. N. Pavlovskiy, 16 pp. RUSSIAN, per, Parazitologicheskii Sbornik, Vol 12, 1950, pp 3-12. CFSTI TT-66-60120

Aspects of the Feeding of Ixodid Ticks, by Yu. S. Balashov, RUSSIAN, per, Parazit. Sbornik, Vol XVIII, 1958, pp 78-109. NLL RTS 3456 (On Loan or Purchase)

Soil Protozoa and Their Biological Importance, by V. F. Nikolyuk, RUSSIAN, per, Podobiologia, Vol III, No 4, 1964, pp 259-273. NLL RTS 3494 (On Loan or Purchase)

Vectors of Diseases of Natural Foci, by P. A. Petrishcheva. 332p. RUSSIAN, mono, Perenochiki Vozbuditelei Prirodnookhagovykh Boleznay, Moscow, 1962. IPST-2150 CFSTI TT-65-25732

Scientific
Biological & Medical Sciences (Contd)

Clinical Use of Transfusions of Erythrocytes Preserved by Super-Rapid Freezing, by F. A. Lurdyga, 7 pp.
RUSSIAN, per, Problemy Gematologii Perelivaniya Krovi, Vol 10, No 10, 1965, pp 38-43.
CFSTI TT-66-61045

The Hematological Service of the USSR and the Immediate Tasks Confronting It, by G. F. Papko, 6 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, No. 2, 1967, pp. 3-6.
JPRS 40293

Prevention and Treatment of Caisson Disease, by N. N. Shchupakov, 158 pp.
RUSSIAN, bk, Profilaktika i Lecheniye Kessonnoy Bolezni, 1962, 187 pp.
JPRS 40325

Problems in Radiobiology, by D. Z. Grodzenskiy, 23 pp.
RUSSIAN, bk, Radiobiologiya, 1966, 231 pp.
JPRS 40446

Radon Waters and Their Therapeutic Uses, by Ye. A. Smirnov-Kamenskiy and S. M. Petelin, 23 pp.
RUSSIAN, bk, Radonovyye Vody i ikh Lechebnoye Primneniye, 1966, pp. 3-6, 7-13, 132-138, 214-246.
JPRS 40350

Regeneration and Neoplastic Growth, by B. P. Tokin, 1959, pp 214-242.
RUSSIAN, per, Regenerat. i Somatich. Embroig., 1959, pp 214-242.
NLL RTS-3462
(On Loan or Purchase)

U.S.S.R. Literature on Water Supply and Pollution Control Vol 8. Sanitary Protection of Natural Water Basins Against Pollution With Industrial Waste Water, by B. S. Levine. 223 pp.
RUSSIAN, mono, Sanitarnaya Okhrana Vodoemov ot Zagrazneniya Promyshlennymi Stoknymi Vodami, 1966.
CFSTI TT-66-61513

Labor Hygiene and Industrial Sanitation, Part I, RUSSIAN, rpt, Sbornik Vazhneishikh Ofitsial'nykh Materialov po Voprosam Gigeny Truda i Proizvodstvennoi Sanitarii, 1962, pp 1-280.
AEC-tr-6467/1

Scientific
Biological & Medical Sciences (Contd)

Medical Services and Facilities on Board Space Craft, by R. M. Bayevskiy, 39 pp.
RUSSIAN, per, Sluzhba Zdorov'ya v Kosmose, No. 15, 1966, pp. 1-43.
JPRS 40383

Basic Principles of Interated Therapy of 'Major' Collagenoses, by V.A. Nasonova, N. Guseva, et al
RUSSIAN, per, Sovetskaya Meditsina, Vol 28, No 5, 1965, pp 46-51.
CFSTI TT-66-61295

Use of Aerosols of Antituberculous Preparations in the Treatment of Pulmonary and Bronchial Tuberculosis, by L. P. Shapiro. 13 pp.
RUSSIAN, per, Sovetskaya Meditsina, Vol 28, No 6, 1965, pp 70-74.
CFSTI TT-66-61353

Hyperreflexia of the Carotid Sinus and Coronary Insufficiency, by V. D. Troshin, S. S. Belousov. 14 pp.
RUSSIAN, per, Sovetskaya Meditsina, Vol 28, No 7, 1965, pp 21-24.
CFSTI TT-66-61294

Effect of Mezaton on Myocardial Contractility in Hypotensive Patients, by M. B. Shklyar, A. E. Sokol. 13 pp.
RUSSIAN, per, Terapevticheskii Arkhiv, Vol 37, No 7, 1965, pp 67-71.
CFSTI TT-66-61080

New Knowledge Concerning Influenza, by V. M. Zhdanov, RUSSIAN, per, Ter Arkh, Vol XXXVIII, No 7, 1966, pp 3-10.
HEW NIH 3-23-67

Toxoplasmosis in Cats, by V. F. Novinskaya, RUSSIAN, per, Toksoplazmoz Zhivotnykh ed. I. G. Galuzo, 1965, pp 161-175.
NLL RTS 3320
(On Loan or Purchase)

Study of the Possible Role of Ixodid Ticks as Reser ires and Vectors of Plague Microbes, by R. V. Grebenyuk, L. N. Klassovsky, S. K. Sartbayev, E. A. Schwartz, P. A. Polulyakh, 11 pp.
RUSSIAN, per, Trudy Ak Nauk Kirgizskoy SSR, Frunze, Institut Zoologii i Parazitologii, No 5, 1956, pp 121-127.
CFSTI TT-66-60944

Scientific
Biological & Medical Sciences (Contd)

The Effect of Certain Toxic Substances on the Basic Forms of Organic Growth in the Gulf of Taganrog, by E. V. Iskra, et al, RUSSIAN, per, Tr. AN SSSR Inst. Okeanol., Vol LXX, 1963, pp 259-269.
NLL 6180.59B 1966 (1743)

The Tannins of Oak and the Part They Play in the Maturation Process of Brandy Alcohols, by E. M. Shpritsman, RUSSIAN, per, Trudy Arm. Nauch. Issled. Inst. Vinog. Vinod. i Plod. M'n. Sel'khoz. Arm. SSR, No 5, 1961, pp 208-218.
NLL RTS 3371
(On Loan or Purchase)

Studies of the Antitumor Effects of Radioactive Methylene Blue Labelled With S³⁵, by N. A. Vodolazskaya, et al. RUSSIAN, per, Trudy Inst. Eksp. Klin. Onkol. Akad. Med. Nauk SSSR, No 2, 1960, pp 159-166.
*AEC

Biolog of Haemaphysalis Neumannii Donitz, 1905, (Parthenogenesis), by V. I. Laptev, RUSSIAN, per, Tr Gos Inst Eksp Vet., Vol XXVIII, 1963, pp 129-136.
HEW NIH 3-31-67
(Available on Loan)

A New Variety of Plague Microbe, by M. I. Levi, Yu. V. Kanatov, et al. 31 pp. RUSSIAN, per, Trudy Gosudarstvennyi Nauchno-Issledovatel'skii Protivochumnyi Institut, Rostov-on-Don, Vol 18, 1961, pp 3-23.
CFSTI TT-66-60116

Material on the Biology of Haemaphysalis Warburtoni Nutt, by A. P. Rostomashvili. 6 pp. RUSSIAN, per, Trudy Guzinskii Nauchno-Issledovatel'skii Veterinarnyi Institut, Vol 11, 1955, pp 205-214
CFSTI TT 66-61171

The Ichthyobdellidae of the Far East, the Genus Platybdella, by E. A. Vasilyev, RUSSIAN, per, Tr. Karelskogo Gosudarstvennogo Pedagogicheskogo Inst. Seriya Biologicheskikh, Vol 1, 1939, pp 42-57.
NLL RTS 3070
(On Loan or Purchase)

Scientific
Biological & Medical Sciences (Contd)

Review of the Literature of the Genetics of the Genus *Fragaria*, by N. Ya. Fedorova, RUSSIAN, per, Trudy po Prikladnoi Botanike, Genetike i Selektsey, Vol XXV, No 5, 1931, pp 120-134.
NLL RTS 3005
(On Loan or Purchase)

Ribes Dikuscha Fisch. - a Valuable Species of Black Currant of the Far East, by N. M. Bochkarnikova, RUSSIAN, per, Trudy po Prikladnoi Botanike, Genetike i Selektsey, Vol XXXVI, No 3, 1964, pp 25-30.
NLL RTS 3097
(On Loan or Purchase)

The Systematic Position of the Orchard Spider Mite of the Alma-Ata Region, by B. A. Vainstein, 26 pp. RUSSIAN, per, Trudy Respublikanskaya Stantsiya Zashchity Rastenii, Vol 3, 1956, pp 57-69.
CSIR Tr 437

Data on the Development of the Teeth and Age Determination in the Sperm Whale, by A. A. Berzin, 25 pp. RUSSIAN, per, Trudy Soveshchaniy Ikhtiologicheskoi Komissii Ak Nauk SSSR, No 12, 1961, pp 94-103.
CFSTI TT-65-63792

On the Development of X-Ray Injuries to the Skin, by L. A. Afrikznova. RUSSIAN, rpt, Trudy Vses Conf Patologonatomov 1954, pp 332-337.
NASA TT F-10,630

Triassic and Jurassic Ostracods of the East Ukraine, by P. S. Lyubimova, RUSSIAN, per, Trudy Vses. Neft. Nauchn. Issled. Inst., Vol XCVIII, 1956, pp 553-589.
NLL RTS 3556
(On Loan or Purchase)

Karyotypes of Argasid Ticks of USSR Fauna in Connection With Their Taxonomy, by Yu. L. Goroshchenko, 15 pp. RUSSIAN, per, Tsitologiya, Vol 4, No 2, 1962, pp 137-149.
CFSTI TT-66-60974

A Method for the Determination of Vitamin D in Solutions of Irradiated Ergosterol, 7-Dehydrocholesterol and in Irradiated Yeast, by V. N. Bukin, I. N. Garkina, V. Pominskiy, 16 pp.

RUSSIAN, per, Ukrayinskyi Biokhim Zhur, Vol 33, No 2, 1961, pp 239-247.
CFSTI TT-66-61496

Study of the Content and Rate of Renewal of Individual Phospholipid Fractions in the Brain of Rats in Normal and Hypoxic Conditions, by V. Ya. Dvorkin, D. A. Chetverikov, et al. 16 pp.
RUSSIAN, per, Ukrayinskyi Biokhimichnyi Zhurnal, Vol 37, No 4, 1965, pp 529-537.
CFSTI TT-66-61344

The Physiology of Azotobacter, by L. I. Rubenchik,
RUSSIAN, per, Usp. Mikrobiol. Ak Nauk SSSR Vses Mikrobiol. Obshch., Vol II, 1965, pp 126-144.
NLL RTS 3444
(On Loan or Purchase)

Effect of Insulin on the Brain, by S. G. Genes. 29 pp.
RUSSIAN, per, Uspekhi Sovremennoi Biologii, Vol 51, No 2, 1961, pp 188-202.
ETC TT-65-23203

Paths of Intracellular Synthesis of Viruses of Avian Leucosis and Sarcoma, by V. A. Parnes, 16 pp.
RUSSIAN, per, Uspekhi Sovremennoi Biologii, Vol 56, No 3(6), Nov-Dec 1963, pp. 431-441.
JPRS 40081

Biological Bases of the Masking of Tumor Viruses, by V. Ya. Shevlyagin, 17 pp.
RUSSIAN, per, Uspekhi Sovremennoi Biologii, Vol. 58, No. 3(6), 1964, pp. 395-408.
JPRS 40216

Dynamics of Water and Electrolyte Excretion Following Water and Salt Loading, and the Effects of High Temperatures, by M. G. Mirzakarimova. 11 pp.
RUSSIAN, per, Uzbekskii Biologicheskii Zhurnal, Vol 9, No 3, 1965, pp 33-36.
CFSTI TT 66-61079

The Amylolytic Activity of the Pancreas, Liver and Intestine During Hyperthermia and Solar Irradiation, by A. Yu. Yunusov, K. Rakhimov, et al. 8 pp.
RUSSIAN, per, Uzbekskii Biologicheskii Zhurnal, Vol 9, No 4, 1965, pp 35-39.
CFSTI TT-66-61354

Experimental in the Use of Variance Analysis on the Qualitative Wealth of the Terrestrial Vertebrate Fauna of the USSR, by P. V. Terent'ev,
RUSSIAN, per, Vestn Leningr Univ Biol, Vol XVIII, No 21(4), 1963, pp 19-26.
HEW NIH 3-5-67

Experience of Ultrasound Echography in the Diagnosis of Certain Eye Diseases, by F.E. Fridman. 17 pp.
RUSSIAN, per, Vestnik Oftalmologii, Vol 78, No 4, 1965, pp 62-68.
CFSTI TT-66-61306

Punctures for the Irrigation of Maxillary Sinuses in Nurslings, Infants and School Children Under Vinidan Rausch Narcosis, by G. Keresti, D. Koshik. 6 pp.
RUSSIAN, per, Vestnik Oto-Rino-Laringologii, Vol 27, 1965, pp 27-29.
ETC TT-65-25335

The Effect of Electromagnetic and Magnetic Fields on the Central Nervous System, by Yu. A. Kholodov.
RUSSIAN, bk, Vliyaniye Elektromagnitnykh Poley na Tsentral'nyu Nervnyu Sistemu, 1966, 283p.
*NASA TT F-465

The Effects of Providing Plants With Water Upon the Features of Expenditure of Water on Transpiration, by L. I. Evdokimova, 20 pp.
RUSSIAN, mono. Vodnyi Rezhim Rastenii i Svyazi s Obmenom Veshchestv i Produktivnostyu, Moscow, 1963, pp 177-181.
CFSTI TT-65-64597

Questions in the Epidemiology and Prophylaxis of Tularemia, by N.G. Olsufev, B.N. Pastukhov. 325 pp.
RUSSIAN, mono, Voprosy Epidemiologii i Profilaktiki Tulyaremi, 1958, 187 pp.
CFSTI TT-66-60118

Scientific
Biological & Medical Sciences (Contd)

Observations on and Corrections to the Suborder Gobioidae in L. S. Berg's Book: Fresh Water fishes of the USSR and Adjoining Countries, 4th Ed., 1948-1949, pp 1055-1125, by V. S. Il'in, RUSSIAN, per, Voprosy Ikhtiologii, Vol VII, 1956, pp 185-192.
NLL RTS 3174
(On Loan or Purchase)

Metabolism of Neuraminic Acid in Animals, by I. V. Tsvetkova, RUSSIAN, per, Voprosy Meditsinsko Khimii, Vol IX, No 2, 1963, pp 115-124.
NLL RTS 3520
(On Loan or Purchase)

The Quantitative Aspects of Tumor and Infectious Virus Interaction, by V. P. Gamburg and G. Ya. Svet-Moldavskiy, 8 pp. RUSSIAN, per, Voprosy Onkologii, Vol XI, No. 4, 1965, pp. 72-77.
JPRS 40272

Influence of Cyclophosphan (Endoxan) and Thiotepea on the Ascites Variety of a Transplantable Tumor of Rat Ovary, by E.Sh. Rabinovich, V.A. Lipova. 21 pp. RUSSIAN, per, Voprosy Onkologii, Vol 11, No 6, 1965, pp 68-74.
CFSTI TT-66-61083

Nutrition and Higher Nervous Activity, by A. I. Makarychev, RUSSIAN, per, Voprosy Pitaniya, Vol XII, No 3, 1953, pp 9-16.
NLL RTS 3458
(On Loan or Purchase)

Mechanism of the Disturbance of Lipid Metabolism in Atherosclerosis and the Effect of Lipemia on the Blood Coagulation System, by F. A. Abdurakhmanov, I. E. Krivoruchenko, B. M. Lipovetskiy, S. V. Chernigovskaya, 20 pp. RUSSIAN, per, Voprosy Pitaniya, Vol 24, No 4, 1965, pp 70-76.
CFSTI TT-66-61634

The Effect of Gamma Irradiated Plant Food on Monkeys, by L. A. Okuneva, Yu. I. Shillinger and N. B. Maganova, 9 pp. RUSSIAN, per, Voprosy Pitaniya, No. 3, May-June 1966, pp. 52-58.
JPRS 40232

Scientific
Biological & Medical Sciences (Contd)

Consciousness and Robots, by Ye. I. Boyko, 12 pp. RUSSIAN, per, Voprosy Psikhologii, No 4, 1966, pp 169-176.
DIA LN 83-67

A Simian Oncogenic Virus Producing Tumor in Man. by V. A. Parnes, 10 pp. RUSSIAN, per, Voprosy Virusologii, Vol. 8, No. 1, 1963, pp. 643-649.
JPRS 40216

Gas-Liquid Chromatographic of Methyl Ethers of Higher Fatty Acids of Sendai Virus Lipid Component, by A. Yu. Smirnova, A. Yu Virkus, 9 pp. RUSSIAN, per, Voprosy Virusologii, Vol 9, No 4, 1964, pp 417-421.
CFSTI TT-66-60112

Luminescence Microscopic Detection of Early Changes in Nucleic Acids and Lipids in Infected Cells, by F. I. Yershov, 8 pp. RUSSIAN, per, Voprosy Virusologii, Vol. 9, No. 6, 1964, pp. 3-10.
JPRS 40216

Formation of Interferon in the Animal Body, by E.V. Ermolayeva, L.L. Fadeyeva, et al. 13 pp. RUSSIAN, per, Voprosy Virusologii, Vol 10, No 2, 1965, pp 221-224.
CFSTI TT-66-61347

Elaphostrongylus of Reindeer, by M. V. Polyanskaya, RUSSIAN, rpt, Vsesoyuznoe Obshchestvo Gel'mintologov. Gel'minty Chelovaka Zhivotnykh Rasteniy i Bor'ba s Nimi, 1963, pp 424-425.
CFSTI TT 67-51244

Investigations of Thermal Fatigue Under Combined Stress Conditions, by N. S. Mozharovskiy. RUSSIAN, per, Vsesoy Sovesh po Voprosam Staticheskoy i Dinamicheskoy Prochnosti Materialov i Konstruktsionnykh Elementov, 1965, pp 250-255.
*FTD-INT-23-618-67

Selection of Coatings for Equipment and Means of Communication of Desalination Plants for the Purpose of Protecting Them Against Corrosion, by V. G. Shigorin. 4 pp. RUSSIAN, bk, Vybor Pokrytii Dlya Zashchity ot Korrozii Oborudovaniya i Kommunikatsii Opre-nitel'nykh Ustanovok, Moscow, 1966.
*AEC

Scientific
Biological & Medical Sciences (Contd)

Indication of a Biological Weapon, by V. V. Skvortsov, V. S. Kiktenko and V. D. Kucherenko, 24 pp.
RUSSIAN, bk, Vyzhivayemost' i Indikatsiya Patogennykh Mikrobov Vo Vneshney Srede, 1966, pp. 110-131.
JPRS 40255

Histochemical and Electron Microscopic Study of the Development of the Receptor Structures of the Membranous Labyrinth in Vertebrates, by L. K. Titova. 24 pp.
RUSSIAN, per, Zhurnal Evolyutsionnoi Biokhimii i Fiziologii, Vol 1, No 4, 1965, pp 311-319.
CFSTI TT-66-61349

Phosphatidic Acid Phosphatase of the Subcellular Fractions of Chick Brain in Ontogenesis, by L. F. Pomazanskaya. 16 pp.
RUSSIAN, per, Zhurnal Evolyutsionnoi Biokhimii i Fiziologii, Vol 1, No 4, 1965, pp 320-324.
CFSTI TT-66-61348

Electron Microscopic Investigation of Muscles in Insecta, by Yu. E. Mandelshtam. 19 pp.
RUSSIAN, per, Zhurnal Evolyutsionnoi Biokhimii i Fiziologii, Vol 1, No 5, 1965, pp 391-397.
CFSTI TT-66-61350

Macrophage Cultures Prepared in Vitro and a Morphological Study of Their Cellular Elements, by T. N. Maslova, 10 pp.
RUSSIAN, per, Zhur Mikrobiol Epidemiologii i Immunobiologii, Vol 40, No 7, 1963, pp 98-102.
CFSTI TT-66-60122

Influence of Passive Immunization on the Sensitizing Effect of Haemophilus Pertussis. Rept. II. Development of Hypersensitivity to Heterologous Antigens, by A. A. Sumarokov, Y. M. Kulikova. 15 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 42, No 6, 1965, pp 56-60.
CFSTI TT-66-61074

Protective Properties of Antivenom Sera in Respect to Venoms of Snakes of Central Asia, by M. I. Roitman, 7 pp.
RUSSIAN, per, Zhur Mikrobiologi Epidemiologii i Immunobiologii, Vol 42, No 11, 1965, pp 108-111.
CFSTI TT-66-61495

Scientific
Biological & Medical Sciences (Contd)

Spatial Synchronization of the α -Activity of the Cortex in Patients with Catatonic Oneiroid from of Schizophrenia, by T. P. Borisova and V. A. Talavrinov, RUSSIAN, per, Zhurnal Nevropatologii i Psikiatrii, Vol LXIV, No 3, 1964, pp 420-427.
NLL RTS 3531
(On Loan or Purchase)

A Serotonin-Like Substances in the Embryogenesis of Certain Gastropod Molluscs, by G. A. Buznikov and B. N. Manukhin, RUSSIAN, per, Zhurnal Obshchei Biologii, Vol XXII, No 3, 1961, pp 226-232.
NLL RTS 3050
(On Loan or Purchase)

Properties of Normal and Tumour Cell Surfaces, by Yu. M. Vasil'ev and A. G. Malenko, RUSSIAN, per, Zh. Vses. Khim. Obsh. im. O. I. Mendeleeva, Vol VIII, 1963, pp 394-402.
NLL RTS 3473
(On Loan or Purchase)

Temperature Changes in the Body of Ornithodoros Papillipes During Bloodsucking, by I. V. Neumin, 9 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 33, No 2, 1954, p 356.
CFSTI TT-66-60123

On Changes in Fat Tissue in Connexion with Photoperiodic Reaction and Diapause in Insects, by I. A. Kuznetsova, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XXXIV, No 3, 1955, pp 532-541.
NLL RTS 3697
(On Loan or Purchase)

On the Mechanics of Bird Flight, by G. S. Shestakova, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XXXV, No 7, 1956, pp 1043-1050.
NLL 5207B (1141) 1966

Plankton Forming in the Kama (perm) Reservoir, by S. N. Ulonskiy, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XXXVIII, No 1, 1959, pp 3-15.
NLL RTS 2997
(On Loan or Purchase)

Scientific
Biological & Medical Sciences (Contd)

Evolution of the Apparatus Dividing Blood Streams in the Vertebrate Heart, by L. P. Tatarinov, 24 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 39, No 8, 1960, pp 1218-1231.
NLL 35s RTS-2685
NCH-203 115

The Growth of Ganglia in the Central nervous System of the Chinese Oak Silk-Moth During its Individual Development, by A. A. Panov, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XL, 1961, pp 694-706.
NLL RTS 3303
(On Loan or Purchase)

Distribution and Specificity of the Life Cycle of the Tick Argas Hermannii Aud., 1827 (Ixodoidea, Argasidae) in Turkmenia, by N. A. Filippova. 9 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 41, No 10, 1962, pp 1575-1578.
CFSTI TT-66-61172

Dynamics of Collembola Populations in Composts of Fallen Leafs, by N. M. Chernova, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XLII, No 9, 1963, pp 1370-1381.
NLL RTS 3449
(On Loan or Purchase)

Wild Reindeer Population and Distribution in the Arkhangel'sk North, by V. Ya. Parovshchikov, RUSSIAN, per, Zoologicheskii Zhurnal, Vol XLIV, No 2, 1965, pp 276-283.
CFSTI TT 67-51237

Changes in Conditional Reflex Activities of Dogs Poisoned with Lethal Doses of Sarin and Soman and Their Treatment with Nemikol-5, by G. Kotov and S. Boychev, 8 pp.
BULGARIAN, per, Voenno meditsinsko delo, No. 6, Dec 1966, pp. 24-29.
JPRS 40217

On the Mathematical Analysis of Epiphytotics of Wheat Stripe Rust - II the Distance of Spread, by S. Tseng, CHINESE, per, Acta Phytopathologica Sinica, Vol VI, No 2, 1963, pp 141-150.
ACSI J-1612
ID 2204002867

Scientific
Biological & Medical Sciences (Contd)

Harbor culture of Mugil soiyu Basilewsky, by Huang T'ao (7806 3447), Sung Ch'ang-wen (1345 2490 2429), Su Kuo-chang (5685 0948 4545), 19pp
CHINESE, rpt, T'ai-p'ing'-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, February 1966, pp 1-9
JPRS 40,706

The Food Habits of Pneumatophorus Japonicus (Houttuyn) in the Sea Regions of Chefoo and Its Vicinities by Yang Chi-ming (2799 4764 2494), 26pp
CHINESE, rpt, T'ai-p'ing'-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, February 1966, pp 10-25
JPRS 40,706

A Preliminary Study on Trichiurus haumila Forskal in the Coastal Sea of Shantung, by Chang Ching-hai (1728 6975 3189), 16pp
CHINESE, rpt, T'ai-p'ing'-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, February 1966, pp 26-34
JPRS 40,706

A Study on the Geographic Tribes and Six Gland of Pseudosciana polyastis Bleeker, by Liu Hsiao-shun (0491 2400 5293), 65pp
CHINESE, rpt, T'ai-p'ing'-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, February 1966, pp 35-70
JPRS 40-706

A Study on the Distribution of Several Kinds of Nitrogen-containing Substances and Amino Acids in Vietnam's Fish Sauce, by Li Chi-ch'eng (2621 7162 6134), Wang Chi-hsiang (3769 1323 5980), Hsu Yu-ch'eng (1776 3768 2052), 14pp.
CHINESE, rpt, T'ai-p'ing'-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 71-77
JPRS 40,706

Scientific
Biological & Medical Sciences (Contd)

A Study on Tetrodotoxin and the Detoxication of Puffers for Food, by Yeh T'ung-feng (5509 2717 1409), 19pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 78-87
JPRS 40,706

A Study on the Nutrition and Bait Materials of Ctenopharyngodon idella (Valenciennes), by Chiang I-Kuei (5592 0001 3802) Chang Chin-hsia (1728 6930 7209), Ch'en Hsi-t'ao (7115 6932 3447), 15pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 88-94
JPRS 40,706

A Preliminary Study of the Problem of Propagating *Macrura reevesii* Richardson in the Ch'ien-t'ang River, by Tao Kuei (7118 2710), Chung Chan-lich (6945 1455 3525), Chao Ch'ang-ch'un (6392 7022 3237), 14pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 95-101
JPRS 40,706

Fishery Research and the Far Eastern Fishing Industry of the Soviet Union, by P. A. Mo-i-hsieh-yeh-fu, 10pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 102-110
JPRS 40,706

Unusual Phenomena in the Embryological Development of the Eggs of Cyprinidae During Hatching and Transportation, 12pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 111-117
JPRS 40,706

The Soviet Union's Migil Fishing Industry and Its Prospect of Development, by K. E. Babayan, A. V. Krotov, 5pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 118-120
JPRS 40,706

Scientific
Biological & Medical Sciences (Contd)

Siomber japonicus in the Japan Sea, by S. M. Kaganovskaya, 11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 121-127
JPRS 40,706

The Characteristics of the Gulf of Tonkin and the Species of Fishes There -- Data Recommended to the Fishery Department of the Vietnam Democratic Republic, by Y. F. Goryanov, A. P. Vechinsky, 13pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 128-134
JPRS 40,706

The Basic Tasks of Oceanographic Study of Standard Cross Sections, by V. G. Bogorov, A. D. Dobroulsky, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 135-137
JPRS 40,706

The Output of Primary Production of the Sea and the Method of Determination, by O. E. Koblenz-Mishk, 8pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 138-141
JPRS 40,706

The Method of Making Large-scale Plankton Charts, by M. E. Vinogradov, 9pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 142-146
JPRS 40,706

The Method of Making Large Scale Charts on Water Depths, by L. K. Tsa-tun-szu-chi, V. F. K'a-la-yeh-fu, 12pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 147-152
JPRS 40,706

Scientific
Biological & Medical Sciences (Contd)

The Problem of Marine Biological Production
by V. G. Bogolov, 2pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wen-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 153
JERS 40,706

Methods of Selecting the Breed of
Cyprinidae, by B. C. Ch'i-erh-p'ich-i-ni-k'o-fu
19pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wen-yuan-hui
Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi,
Feb 1966, pp 154-163
JERS 40,706

The Maturity and Propagation of Economic
Fishes Laying Floating Eggs in Amur River,
by A. P. Ma-k'ai-yeh-wa, S. G. Su-yin,
T. L. Po-t'a-po-wa, 13pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wen-yuan-hui
Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi,
Feb 1966, pp 164-170
JERS 40,706

Certain Characteristics of the Propagation
and Maturity of *Hypophthalmichthys molitrix*
Val. of the Amur in the Soviet Union, by
N. A. Simonova, 10pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 171-175
JERS 40,706

Characteristics of Maturation and Propagation
of *Ctenopharyngodon idella* Val. in the Amur
Valley of the Soviet Union, by E. E. Gorbach,
9pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 176-180
JERS 40,706

Biological Basis for the Rational Conduct
of Fresh Water Fishery in the Amur Valley,
by M. L. K'o-lei-hai-chin, 11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 181-186
JERS 40,706

Scientific
Biological & Medical Sciences (Contd)

Lake Hobsogol (Mongolian People's Republic),
Possibilities of Its Fishery Utilization and
Tasks of Further Studies, by A. A. Tomenov,
11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 187-192
JERS 40,706

Amur Pisces of the Selenga River Valley, by
M. G. Ah-szu-ha-yeh-fu, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 193-195
JERS 40,706

Propagation of Fishery Resources Under
Conservancy Construction, by N. E. K'o-jen
6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 196-198
JERS 40,706

The Significance of Antibiotics and Vitamins
in Breeding Young Salmon of the Baltic, by
Ye. M. Ma-li-k'o-wa, 11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 199-205
JERS 40,706

The Status of Using Lamp Light to Catch
Fish and the Possibility of Further
Development, by E. V. Nikonolov, 16pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 206-213
JERS 40,706

Experiences of Tuna Fishing by Seine Net,
by V. S. Tao-erh-pi-shih, 10pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu
Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u
Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966,
pp 214-218
JERS 40,706

Scientific
Biological & Medical Sciences (Contd)

Mechanization of Large Dragnet Fishing in Great Lakes and Reservoirs, by V. V. Ku-lin, 8pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 219-223
JPRS 40,706

The Functions of Histological Enzymes in the Ripening Process of Salt Preserved Salmonidae, by Ye. A. Na-hsieh-chin-na, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 224-226
JPRS 40,706

The Scomber As Material for Pickling and Smoking Preparations, by A. A. Chi-li-lo-wa, A. E. Ko-li-k'o-wa, 8pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 227-230
JPRS 40,706

The Vitamin A Contents of Fishes in the Gulf of Tonkin and Gulf of Siam, by G. A. Tao-erh-pi-shih, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 231-235
JPRS 40,706

The Industrial Chemical Characteristics of Fishes of the South Sea and East Sea and Their Rational Utilisation, by O. M. Mai-li-ni-k'o-wa, 5pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 235-237
JPRS 40,706

The Bait Material Values of Phytoplankton, by E. V. Chi-chieh-wei-chieh-erh, 14pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 238-245
JPRS 40,706

Scientific
Biological & Medical Sciences (Contd)

Applications of Fish-Dam Type of Fish-hauling Equipment in Great Rivers on the Plains, by L. M. Ni-hsin-pa-wu-mo, 11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 246-251
JPRS 40,706

A Study on the Effects of Certain Factors on the Quality of Frozen Fishes after Defrosting, by V. P. Pai-k'o-fu, 16pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 252-259
JPRS 40,706

A Study of the Structure of Ch'iung-Chih Colloid Under Electronic Microscope, by V. A. Yeh-fu-t'u-shen-k'o, 11pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 260-266
JPRS 40,706

Some New Machines and Installations for Fish Processing on Fishing Vessels and on Shore, by A. V. Chieh-l'ien-chi-yeh-fu, 4pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 267-268
JPRS 40,706

Experiments on Propagation of Ostrea gigas Thunberg and the Methods of Collecting Seeds Rationally, by East Sea(Tung-hai) Aquatic Products Institute, 12pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 269-274
JPRS 40,706

Some Physical and Chemical Characteristics of Rockfish (Ming-t'ai-yu), by Chin Shun-tee (6855 7311 3419), 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 275-277
JPRS 40,706

Scientific
Biological & Medical Sciences (Contd)

Experimental Breeding of *Salmo irideus* gibbons at Fu-ming Reservoir, by Fresh Water Fishery Institute, 19pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 278-287
JERS 40,706

The Question of Race of *Pseudosciaena polyastis* Bleeker of the Yellow Sea by Hsi-hai (Western Sea) Aquatic Products Institute, 5pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 288-290
JERS 40,706

Propagation of *Macta veneformis* Reeve and Experiment in Artificial Egg Laying, by Hsi-hai (West Sea) Aquatic Products Institute, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 291-293
JERS 40,706

A Preliminary Survey of the Components, Source and Distribution of the Red River Fish Species and Population, by Mei T'ing-an (2734 1656 1344), 27pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 294-311
JERS 40,706

Some Characteristics of *Sardinella* of the Gulf of Tonkin, by P'ei T'ing-chung (5952 1694 6988), 9pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 312-318
JERS 40,706

A Supplementary Report on the Breeding of *Tilapia mossambica*, Peters, by Fan Wen-shih (5400 2429 6684), Li Kuang-lung (7812 0342 7893), Yuan T'ing-hai (7806 1656 6007), Li Chia-szu (7812 0857 1895), 19pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 319-329
JERS 40,706

Scientific
Biological & Medical Sciences (Contd)

Classifications of Fishes in Lake Bayr, by A. Ta-shih-tao-erh-chi, 6pp
CHINESE, rpt, T'ai-p'ing-yang Hsi-pu Yu-yeh Yen-chiu Wei-yuan-hui Ti-ch'i-tz'u Ch'uan-t'i Hui-i Lun-wen-chi, Feb 1966, pp 330-333
JERS 40,706

Comparative Analysis of Signal Interrelationships by the Method of Clinical Language and Typological Questionnaire, by A. Medek, CZECH, per, Acta Universitatis Palackianae Olomuebsis - Facultatis Medicae, Vol XXXI, 1962, pp 211-216.
ACSI J-1594
ID 2204002167

Choise of Parameters for Nerve Cell Model, by Melka Nadvornik, et al, CZECH, per, Kybernetika, Vol I, No 1, 1965, pp 50-55.
*ACSI J-2217
ID 2204015967

VIII. History of Natural and Technial Sciences, by L. Novy, CZECH, rpt, Vingt-Cinq ans d'histroigraphe Tchecoslovaque 1936-1960, Prague, 1960, pp 407-429.
HEW NIH 3-4-67

A Study of the In-Vitro Biological Activity Stimulation of Corpus Luteum of Ewes by Serum Gonadotropic Hormone of Pregnant Mares, by J. Legault-Demare, P. Mauleon, et al. 10 pp. DANISH, per, Acta Endocrinologica, Vol 34, 1960, pp 163-168.
SLA TT-66-12179

The Perception od Duration, by J. A. Michon, DUTCH, per, Nederl T Psychol, Vol XX, No 7, 1965, pp 391-418.
HEW NIH 3-11-67

Discrimination of Letter-Shapes by Children with Reading and Writing Problems, by J. M. Van Meel, et al, DUTCH, per, Nederl T Psychol, Vol XXI, No 3, 1966, pp 194-210.
HEW NIH 3-7-67

Scientific
Biological & Medical Sciences (Contd)

Isolation by Selection of Mutants of Escherichia Coli Spontaneously Synthesizing Amylomaltase and Beta-Galactosidase, by G. Cohen-Bazire, M. Jolit. 11 pp.
FRENCH, per, Annales Institut Pasteur, Paris, Vol 84, 1953, pp 937-945.
SLA TT-66-12242

Use of Cholecystokinin in Cholecystography, by E. Jorpes, V. Mutt, C. Wegelius, 11 pp.
FRENCH, per, Archives des Maladies de l'Appareil Digestif, Vol 46, No 5, 1957, pp 414-418.
CFSTI TT-66-12537

The Inhibitor Hormone of Cholecystokinin, Its Role in Biliary and Pancreatic Pathology, by J. Caroli, J. Plessier, B. Plessier, 16 pp.
FRENCH, per, Archives des Maladies de l'Appareil Digestif, Vol 49, No 12, 1960, pp 1585-1600.
CFSTI TT-66-12538

Effect of the Duration of Cholecystokinin Injection of Gallbladder Evacuation, by J. Lescut, S. Delannoy, 8 pp.
FRENCH, per, Archives des Maladies de l'Appareil Digestif, Vol 52, No 6, 1963, pp 690-695.
SLA TT-66-12534

Study of the Distension of the Biliary Tract by Cholecystography With Cholecystokinin in the Course of Chronic Anicteric Pancreatitis, by F. Guerrin, A. Fovet, J. Lescut, 6 pp.
FRENCH, per, Archives des Maladies de l'Appareil Digestif, Vol 52, No 6, 1963, pp 695-699.
SLA TT-66-12535

Radiocinematographic Studies of Gallbladder Evacuation. The Effects of Cholecystokinin on the Extrahepatic Biliary Tract, by J. L. Balme, Touluc, G. Voisin, F. Jaumes, 5 pp.
FRENCH, per, Archives des Maladies de l'Appareil Digestif, Vol 52, No 11, 1963, pp 1149-1152.
CFSTI TT-66-12536

The Heart of Leukemias, by G. Faivre, P. Lamy, A. Laroan, 15 pp.
FRENCH, per, Archives des Maladies du Coeur et des Vaisseaux, Vol 48, 1955, pp 156-166.
SLA TT-66-12001

Scientific
Biological & Medical Sciences (Contd)

Toxicological Research on Benzene Substitution Solvents. III. Study of Isopropylbenzene or Cumene, by R. Fabre. FRENCH, per, Arch Maladies Prof Med Travail et Securite Social, No 16, 1955, pp 285-299.
*Dept of Navy Tr 5220/ONI Tr 2334

Principles and Methods for Establishing Thermal Processes for Canned Foods, by H. Cheftel G. Thomas. 84 pp.
FRENCH, Bulletin Etablissements J. J. Carnaud et Forges de Basse-Indre. Laboratoire de Recherches, Billancourt, No 14, Sep 63.
CFSTI TT-65-50070

Some Recent Ideas on the Problem of Sorting, by C. Picard,
FRENCH, per, Chiffres, Vol IX, No 1, 1966, pp 41-46.
HEW NIH 3-25-67

Influence of Adenine and of Certain Pyrimidine Bases on the Lysis of Cultures of Escherichia Coli Subjected to the Action of Benzyl-Penicillin (Penicillin G), by M. Faguet. 7 pp.
FRENCH, per, Comptes Rendus Academie des Sciences, Paris, Vol 261, No 23, 1965, pp 5239-5242.
SLA TT-66-12241

Membranous Aspects of the Fibroblast in the Course of the Genesis of Collagen in Glossodoris, by G. Nicaise, et al,
FRENCH, per, C R Acad Sc, Vol CCLXII D, 1966, pp 2248-2250.
HEW NIH 3-29-67

Non-Defectiveness of the Prague Strain of Rous Virus, by A. Golde, et al,
FRENCH, per, C R Acad Sci, Vol CCLXII D, 1966, pp 2793-2796.
HEW NIH 3-2-67

Polygraphic Study of Sleep in Birds, by M. Klein, et al,
FRENCH, per, C R Soc Biol, Vol CLVIII, No 1/6, 1964, pp 99-103.
HEW NIH 3-20-67

E.E.G. and Behavioral Studies on the Wakefulness-sleep Alternations in the Donkey, by Y. Ruckebusch,
FRENCH, per, C R Soc Biol, Vol CLVII, No 1/6, 1963, pp 840-844.
HEW NIH 3-19-67

Scientific
Biological & Medical Sciences (Contd)

Behavior Modifiers in the Study of the Biliary Tract. Combined Effect of Morphinic Substances and Cholecystokinin, by F. Vandendorp, J. Paris, et al. 9 pp.
FRENCH, per, Journal de Radiologie, d'Electrologie et de Medicine Nucleaire, Vol 44, 1963, pp 258-263.
SLA TT-66-12652

Variations in Lactacidemia Under the Effect of Perfusion of D-L Lactate Pyruvate, Dihydroxyacetone with the Normal Animals and Those with the Neuroplegic Animal Placed in Hypercapnia, by H. Laborit and C. Baron, et al,
FRENCH, rpt, IXmes Journees d'Agressologie, Agressologie 1966 VII-4, 7-8 Oct 1966, pp 315-325.
ACSI J-1707
ID 2204004967

Studies on the Scintigraphy of the Pancreas, by A. Laconi and F. Melfi, et al,
FRENCH, per, Minerva Medica, Vol LVI, No 86, 1965, pp 3645-3652. P911099167
AEC-NP-TR-1495

Viruses and Human Leukemias, by J. P. Levy,
FRENCH, per, Path Biol, Vol XIV, No 19-20, 1966, pp 966-975.
HEW NIH 3-12-67

Clinical Study of a New Synthetic Non-Barbiturate Hypnotic, Methyl-2-Orthotolyl-3-Quinazalone-4, by A. Ravina. 9 pp.
FRENCH, per, Presse Medicale, Vol 67, 1959, pp 891-895.
SLA TT-66-12041

What is the Present Frequency of Viral Pneumopathies, by M. P. Tournier, et al,
FRENCH, per, Presse Med, Vol LXXIV, No 17, 1966, pp 883-885.
HEW NIH 3-1-67

Problem of Drinkable Water in Case of Catastrophe, by H. C. Weiler,
FRENCH, per, Protection Civile et Securite Industrielle, No 144, Jun 1966, pp 11-17.
ACSI J-1721
ID 2204005567

Auto-Antibodies with Multiple Specificities anti-Hi, Anti-AI, and Anti-BI, Found in Certain Hemolytic Anemia Eluates, by Ch. Salmon,
FRENCH, per, Rev Franc Etud Clin Biol, Vol X, 1965, pp 522-525.
HEW NIH 3-14-67

Scientific
Biological & Medical Sciences (Contd)

A New Sedative-Hypnotic: Methaqualone, by J.R. Boissier, A. Galtier. 13 pp.
FRENCH, per, Semaine des Hopitaux Therapeutique, Vol 39, 1963, pp 258-261.
SLA TT-66-12047

Synergistic Action of the Auxins and of Tomato Sap on the Growth of Vegetative Tissues Cultivated in Vitro, by J. P. Mitsch, C. Mitsch, 26 pp.
FRENCH, Bulletin, Societe Botanique de France, Vol 102, No 9, 1955, pp 519-527.
SLA TT-66-10221

Study of the Biological Effect of Ionizing Radiation, by Henri Atlan.
FRENCH, rpt, 28 pp.
NASA TT F-10,922

Corticosteroid Foam in the Treatment of Skin Diseases, by H. Friderich. 9 pp.
GERMAN, per, Aerztliche Praxis, Vol 18, No 3, 1966
SLA TT-66-12043

Total Blood Level of Alkylating Agents in Rats After Administration of Cyclophosphamide and Acyclophosphamide, by H. M. Rauen, et al,
GERMAN, per, Arzneimittelforschung, Vol XIV, No 9, 1964, pp 1066-1067.
HEW NIH 3-17-67

Investigation of Anthelmintics, by H.A. Oelkers. 10 pp.
GERMAN, per, Arzneimittel-Forschung, Vol 15, 1965, pp 852-856.
SLA TT-66-12035

Experimental Hypertension and the Renin-angiotensin System, by H. Brunner, F. Hedwall. 9 pp.
GERMAN, per, Aerztliche Forschung, Vol 19, No 1, pp 3-7. 1965.
SLA TT-66-12039

The Role of the Pyramidal System in Sensorimotor Integration, by M. Wiesendanger, et al,
GERMAN, per, Bull Schweiz Akad Med Wiss, Vol XXII, No 4, 1966, pp 277-384.
HEW NIH 3-34-67

Differential DNA-Replication in the Salivary Gland Chromosomes of Chironomus Thummi, by H. G. Keyl and C. Peilling,
GERMAN, per, Chromosoma, Vol XIV, 1963, pp 347-359. P91105867
AEC-ORNL-TR-1560

Scientific
Biological & Medical Sciences (Contd)

Heterozygous Functional Structures in the Giant Chromosomes of *Acircotopus Lucidus* Puffs as Loci of Uniloc Structure Mutations, by Reinhard Panitz, GERMAN, per, Chromosoma, Vol XVII, 1965, pp 199-218. P911105767
AEC-ORNL-TR-1561

Concerning the Splitting of a Closed Community of Active Persons With Secular Change of Mortality, by G. Wuensche. 6 pp.
GERMAN, per, Deutsche Gesellschaft fuer Verischerungsmathematik. Blaetter, Vol 5, No 1, 1960, pp 55-59.
NIH 6-31-65

Results of an Inquiry into the Present Usage of Boric Acid Therapy in 51 Children's Clinics, by H. J. Kaufmann, R. Salzberg, U. Held, 9 pp.
GERMAN, per, Deutsche Medizinische Wochenschrift, Vol 87, 1962, pp 2378-2381.
SLA TT-66-12495

Is there a Hepatorenal Syndrome, by G. A. Martini. 11 pp.
GERMAN, per, Deutsche Medizinische Wochenschrift, Vol 87, No 47, 1962, pp 2408-2419.
SLA TT-66-12758

Studies on the Objectification of Electrically Induced Sleep, by Walter Holzappel, GERMAN, rpt, Dissertation zur Erlangung des Grades eines Doktors der Medizin, 1964, pp 1-74.
ACSI J-1220
ID 2204055766

Notes on Morphological Changes Appearing in the Human Ovary Subjected to the Action of a Hormonal Contraceptive, by K. S. Ludwig. 6 pp.
GERMAN, per, Experientia, Vol 21, No 12, 1965, pp 726-728.
SLA TT-66-12045

Effect of Light on the Germination of Several Strains of *Arabidopsis Thaliana* L. Heynh, by Ida Kugler, 33 pp.
GERMAN, per, Field Information Agency, Technical (US) FLAT Report No 1094, pp 5-22.
Dept of Navy Tr No 5140/ONI 2286

Radiobiologic Problems of Space Flight, by W. Briegleb, G. Schafer. 11 pp.
GERMAN, per, Flug-Welt, No 6, 1963, pp 494-497.
SLA TT-66-11789

Scientific
Biological & Medical Sciences (Contd)

Connection Between Hemiatrophia Faciei Progressiva and Skelerodermie, by S. Jablonska, B. Lukasiak. 12 pp.
GERMAN, per, Hautarzt, Vol 9, No 1, 1958, pp 9-15.
SLA TT-66-12712

The Urticarious Effect of Perspiration, by G. Steuttgen and P. Atzwanger, GERMAN, per, Der Hautarzt, No 10, 1961, pp 449-452.
ACSI J-1902 A
ID 2204011367

Fascia-Desmoids and a Discussion of the Term Semimalignity, by H. Walker. 17 pp.
GERMAN, per, Helvetic Chirurgica Acta, Series B, Vol 20, Suppl 7, 1953, pp 175-195.
SLA TT-66-12758

Adrenal and Extra-Adrenal Effects of a Synthetic Polypeptide (30,920 Ba) Which Stimulates the Adrenal Cortex, by M. Jenny, A. Muller. 6 pp.
GERMAN, per, Helvetica Medica Acta (Switzerland) Vol 30, 1963, pp 476-481.
SLA TT-66-12037

Familial Malformation Complex Umbilical Hernia and Macroglossia - a New Syndrome, by H. R. Wiedemann, GERMAN, per, J Genet Hum, Vol XIII, No 2-3, 1964, pp 223-232.
HEW NIH 3-9-67

Determination of the Binding of Triiodothyronine to Serum Proteins by Means of Dextran Gel Filtration, by P. C. Scriba, R. Landgraf, H. G. Heinze, K. Schwarz, 73 pp.
GERMAN, per, Klinische Wochenschrift, Vol 44, No 2, 15 Jan 1966, pp 69-76.
P911104067
AEC NP-Tr-1493

Investigations on Tolerance and Clinical Testing of a new Non-Barbiturate Hypnotic, by K. Herrmann 6 pp.
GERMAN, per, Muenchener Medizinische Wochenschrift, Vol 103, 1961, pp 2288-2290.
SLA TT-66-12042

Scientific
Biological & Medical Sciences (Contd)

Cell Electrophoresis in Clinical Diagnosis.
Electrophoretic Studies on Blood Cells,
Lymphode Cells and Tumor Cells from Freshly
Obtained Samples, by F. Rueff, et al,
GERMAN, per, Munchen Med Wschr, Vol CV,
No 24, 1963, pp 1242-1250.
HEW NIH 3-3-67

Intensified Infusion-Diuresis Therapy of
Acute Narcotic Intoxications, by E. Fritz,
11 pp.
GERMAN, per, Muenchener Medizinische
Wochenschrift, Vol 107, No 43, 1965,
pp 124-130.
ATS-92T91G

Two Doctrines of Drive: Lorenz and Freud, by
H. Stierlin. 14 pp.
GERMAN, per, Nervenzarzt, Vol 24, No 10, 1954,
pp 407-410.
SLA TT-66-12196

New Methods of Investigation for the Study of
Systemized Changes of Bone Tissue and Possibil-
ities of Objectification of Therapeutic Measures,
by H. P. Vittali. 10 pp.
GERMAN, rpt, Neue Untersuchungsmethoden zum
Studium Systemisierter Knochengewebsverande-
rungen und Moglichkeiten der Objektivierung
Therapeutischer Massnahmen, Oct 1964.
P911025767
AEC ANL-tr-403

Pruritus in the Child and its Treatment With
Dimethylpyrindene Maleate, by M. Neyroud,
G. Pechenard. 7 pp.
GERMAN, per, Praxis (Switzerland), Vol 51, No 27,
1962, pp 704-707
SLA TT-66-12040

Experimental Research Concerning the Early
Erythema on X-Rays from a Soft Roentgen Tube
and Its Behavior in Reaction Changes of the
Skin, by Robert Wernsdorfer,
GERMAN, per, Strahlentherapie, No 105, 1957,
pp 467-474.
ACSI J-1902 B
ID 2204011367

The Possibility of Using Radioactive Drugs,
by J. S. Mitchell,
GERMAN, per, Strahlentherapie, Vol CXXVII,
No 4, 1965, pp 497-509.
HEW NIH 3-8-67

Scientific
Biological & Medical Sciences (Contd)

Mean Correction Factors of Rotentgen in rad
for Compact Bone and Muscle Tissue, by
Adalbert Rakow,
GERMAN, per, Strahlenther, Vol CXXVII, 1965,
pp 538-549. P911107567
AEC-ORNL-TR-1544

Experience with Transportable Drinking-Water
Extraction Plants in the Storm-Tide Area,
by H. C. Weiler,
GERMAN, per, Wehr und Wirtschaft, No 4-5,
1962, reprint,
*ACSI J-2110
ID 2204014367

A New Peroral Pruritus Therapy, by H. Weitgasser.
11 pp.
GERMAN, per, Wiener Medizinische Wochenschrift,
Vol 113, No 37, 1963, pp 684-686.
SLA TT-66-12036

Effects of Experimental Glanges in Mineral
and Water Balance of Pregnant Rats on Fetuses
and the Amnion Fluid, by Horst Winkler,
GERMAN, per, Wissenschaftliche Zeit fer
Friedrich-Schiller-Univeritat Jena, No 11,
1962, pp 345-350.
*FTD-HT-23-652-67

Influenza A/equi-2 in Switzerland in 1965,
by M. F. Paccaud, et al,
GERMAN, per, Zbl Vet-Med (B), Vol XIII, No 5,
1965, pp 417-426.
HEW NIH 3-24-67

Influenza A/equi-2 in Switzerland in 1965,
III. Symptomatology, by H. Gerber, et al,
GERMAN, per, Zbl Vet-Med (B), Vol XIII, No 5,
1965, pp 438-450.
HEW NIH 3-13-67

On the Relation of the Child to the Animal, by
A. M. Kruger,
GERMAN, per, Z Angew Psychol, Vol XLVII, 1934,
pp 9-64.
HEW NIH 3-28-67

Investigations on the Incidence of Hemag-
glutination-Inhibiting Antibodies Against
Reovirus Types 1 and 2 in the Population,
by J. Schmidt adn Chr. Tauchnitz, et al,
GERMAN, per, Zeitschrift fir Hygiene, Vol
CL, 1965, pp 269-279. P911107967
AEC-ORNL-TR-1501

Scientific
Biological & Medical Sciences (Contd)

Influence of Actinomycin on the Increase of Myxoviruses, by R. Rott, et al, GERMAN, per, Z Naturforsch (B), Vol XIX, No 4, 1964, pp 316-323.
HEW NIH 3-16-67

Promoting and Inhibiting Effects of Far-red in the Phytochrome Induced Chloroplast Movement in Mougeotia, by Wolfgang Haupt, et al. GERMAN, per, Zeit. Pflanzenphysiol, Vol 56, 1967, pp 102-103.
*AEC

Fungicides for Agriculture.
GERMAN, Patent No 1,211,855, 3 Mar 1966, 16 p.
N. V. Philips' Gloeilampenfabrieken
Chem Trans Sv 2638

The Layers Surrounding the Yolk in the Bird Egg, by W. Von Nathusius, et al, GERMAN, per, Z Wiss Zool, Vol XVIII, 1868, pp 225-270.
HEW NIH 3-21-67

Gastric Lesions Produced by Caffeine, by M. Molteni, 38 pp.
ITALIAN, per, Archivio Italiano di Chirurgia, Vol 53, 1938, pp 135-157.
SLA TT-65-14281

Light Sleep and Deep Sleep in the Dog, by F. Bonamini, et al, ITALIAN, per, Boll Soc Ital Biol Sper, Vol XXXVIII, 1962, pp 1298-1299.
HEW NIH 3-26-67

Representation of the Equilibrium Between Hb4 and O2 as a Function of the Hemes in the Hemoglobin Molecule, by G. Torelli, A. Pini, et al. 5 pp.
ITALIAN, per, Bollettino Societa Italiana di Biologia Sperimentale, Vol 40, No 24, 1964, pp 2232-2235
SLA TT-66-11787

Radiological Investigation by Means of Cholecystokinin, by M. Lato, F. Severi, et al. 7 pp.
ITALIAN, per, Clinica Pediatrica, Vol 44, 1962, pp 291-295.
SLA TT-66-12651

Effects of Cholecystokinin on the Biligenetic Activity of the Liver, by M. L. Ramorino, L. Luxietti, H. Campioni, 9 pp.
ITALIAN, per, Folia Endocrinologica, Vol 14, 1961, pp 266-271.
CISTI TT-66-1254)

Scientific
Biological & Medical Sciences (Contd)

The Lipoid Metabolism of the Skin and Its True Pathology, by A. Ribuffo, ITALIAN, per, Giornale Italiano Dermatologia, No 107, 1966, pp 1211-1226.
ACSI J-2111
ID 2204014467

Further Results in Virologic Research on Childhood Leukemia, by M. G. Sandrucci, et al, ITALIAN, per, Minerva Pediat, Vol XVIII, No 18, 1966, pp 914-922.
HEW NIH 3-30-67

On the Morphology of Mammary Tumors Induced by Methylcholanthrene in Balb/C Mice Never Exposed to the Agent, by M. Olivi, F. Squartini, G. Rossi, 38 pp.
ITALIAN, per, Perugia Univ. Istituto di Anatomia Patologica, Lavori, Vol 23, 1963, pp 167-202.
SLA TT-65-17303

Clinical and Experimental Studies on Radiation-Injury to Taste, by Tanigawa, Kazuo. 18 pp.
JAPANESE, per, Nippon Igaku Hoshasen Gakkai Zasshi, Vol 23, 1963,, pp 704-712.
AEC NSJ-tr-32

Cell-Physiological Study on the Function of Roots. IV. Active Supply of Oxygen From the Leaves of Rice Plants into Their Roots, by R. Aimi. 11 pp.
JAPANESE, per, Nihon Sakumotsu Gakkai Kiji, Vol 29, No 1, 1960, pp 51-54.
SLA TT-66-11792

Studies on the Control of the Rice Stemmaggot by Application of Insecticides to the Soil, by T. Koyama. 39 pp.
JAPANESE, per, Tohoku Nogyo Shikenjo Kenkyu Hokoku, No 32, 1965.
SLA TT-66-11791

Process for Preparation of Preparations for Cure of the Skin.
NETHERLANDS, Patent Appl. 65-06710,
29 Nov 1965, 7 p.
Ciba, Ltd.
Chem Trans Sv 2787

Studies on Photoperiodism in Polish Hemp, by Regina Laskowska,
POLISH, per, Pracznik Rolniski - Prace Roln., No 7, 1962, pp 65-116.
CISTI TT 65-50335

Scientific
Biological & Medical Sciences (Contd)

The Role of L Form Bacteria in Reiter's Disease, by S. Slopek,
POLISH, per, Polskie Archiwum Medycyny New-
netrznej, Vol XXVII, No 2, 1957, pp 399-405.
ACSI J-1694
ID 2204004667

Glycemic Curves in Subjects with Atheromatosis,
by L. Tochowicz, et al,
POLISH, per, Pol Tyg Lek, Vol XVI, 1961,
pp 746-749.
HEW NIH 3-15-67

The Occurrence and Properties of Acetyl-
Cholinesterase, by S. Niemierko. 12 pp.
POLISH, per, Postepy Biochemii, Vol 11, No 2,
1965, pp 247-263
ETC TT-66-23826

Preceipitation of Phospholipids in the Reactions
of the Respiratory Chain, by Marie Erecinska.
POLISH, per, Postepy Biochemii, No 7,
1966, pp 535-545.
*NASA TT-F-10886

Investigations on the Mycotrophy of Plant
Associations in the Pieniny National Park
and on Mt. Skalka Above Lysa Polana (Clearing)
in the Tatra, With Special Reference to the
Mycotrophy of Relict Pines, by Tadeusz Dominik,
13 pp.
POLISH, per, Prace Instytutu Badawczego
Lesniczwa, No 208, 1961, pp 31-58.
CFSTI TT 66-57034

The Influence of Tocopherols and Carotenes
on the Development of Colorado Beetle, by
Zofia Zwolinska-Sniatkova,
POLISH, per, Prace Naukowe Inst. Ochrony
Roślin, Vol IV, No 1, 1962, pp 5-51.
CFSTI TT 65-50324

Production and Application of Enzyme Prep-
arations on the Food Industry, by
Jozef A. Bernat,
POLISH, per, Przemysl Fermentacyjny i
Rolny, No 11, 1966, pp 406-407.
*ACSI J-2286
ID 2204016767

Studies on the Solubility of Keratin in Sodium
Sulfide Solutions, by M. Wronski, et al,
POLISH, per, Zesz Nauk Univ Lodz, Ser 2 Nauki
Matemat-Przyrodn., No 19, 1965, pp 79-86.
HEW NIH 3-10-67

Scientific
Biological & Medical Sciences (Contd)

Feedback Mechanisms in Ecosystems, by Marcel
Radulescu, Bogdan Staugren, 17 pp.
RUMANIAN, per, Acad. Repub. Populare Romine,
Filiala Cluj, Studii Cercetari Biol, Vol 14,
No 1, 1963, pp 135-140. P011102667
AEC ORNL-Tr-1500

Simian Viruses, by Magda Gartner and N. Chirescu,
13 pp.
RUMANIAN, per, Studii si Cercetari Inframicro-
biologie, Vol 14, 1963, pp. 463-471.
JPRS 40045

Larus. Journal of Ornithological
Institute.
SERBO-CROATIAN, per, Larus, Vol XV, 1961,
207 pp.
*CFSTI TT 67-58043

Larus. Journal of Ornithological
Institute .
SERBO-CROATIAN, per, Larus, Vol XVI,
1962; Vol XVII, 1963; Vol XVIII, 1964,
280 pp.
*CFSTI TT 67-58044

Remarks on the Ocular Attack in Onchocerciasis
Ocular Manifestations in the Course of Metrazan
Therapy, by B. R. Noble, 6 pp.
SPANISH, per, Anales Sociedad Mexicana de
Oftalmologia y Oto-Rino-Laringologia, Vol 23,
1949, pp 25-31.
SIA TT-65-17295

Cyproheptadine in the Control of Secondary
Reactions to Diethylcarbamazine Therapy for
Onchocerciasis, by C. A. Villamayor, 10 pp.
SPANISH, per, Boletin Epidemiologico, Vol 27,
No 1, 1963, pp 76-80.
SIA TT-65-17294

The Lascaris-Comneni and the Imperial Supreme
Order of Constantine the Great, by
J. J. Santa-Pinter,
SPANISH, per, Horizontes (Puerto Rico), Vol
VIII, No 16, 1963, pp 63-70.
HEW NIH 3-27-67

Latest Developments in Surgery in Cuba, 8 pp.
SPANISH, per, Revista Cubana de Cirugia, Vol V,
No. 4, 31 Aug 1966, pp. 335, 421-422, 425, 462-
463, 467, 494-495; 497, 500, 501, 507-508.
JPRS 40201

Scientific
Biological & Medical Sciences (Contd)

Latest Developments in Medicine in Cuba, 15 pp.
SPANISH, per, Revista Cubana de Medicina, Vol V,
No. 3, 30 June 1966, pp. 257, 263-270; 273, 284;
287, 290; 291, 294; 297, 302; 303, 310; 313, 326;
327, 336; 339, 344-345; 347, 351; 353, 355, 357,
368.
JPRS 40201

Cuban Medical Research, 10 pp.
SPANISH, per, Revista Cubana de Medicina, Vol.
5, No. 4, 31 Oct 1966.
JPRS 40397

Cuban Doctors Report on Heart Disease Researches,
7 pp.
SPANISH, per, Revista Cubana de Pediatria, Vol.
38, No. 5, 31 Oct 1966,
JPRS 40397

Treatment of Malignant Tumors with Podophyllic
Derivatives, by R. Hidalgo, et al,
SPANISH, per, Rev Med Hosp Gen (Mex), Vol XXIX,
No 6, 1966, pp 415-426.
HEW NIH 3-6-67

Determination of Sterilizing Effect with
Hot Air on Materials Contaminated with
Mustard Gas, by A. Hedbon, K. Arnflykt,
et al,
SWEDISH, rpt, Bestamning av Saneringseffekt
Vid Varmluftsanering av Material Kontaminerat
Med Senapsgas, Dec 1964, 12 pp.
*ACSI J-2287
ID 2204016867

Sterilizing of Gas-Contaminated Uniforms
with Hot Air and Decontaminants, by
N. Forsman, A. Hedbon, et al,
SWEDISH, rpt, Sanering av Gasbelagda Uni-
former Med Varmluft i Saneringstalt,
Mar 1966, 9 pp.
*ACSI J-2287
ID 2204016867

Sterilizing of Clothing Contaminated with
Poison Gas with Hot Air, by N. Ekman,
SWEDISH, rpt, Sanering av Nedgasade Per-
sonal Med Varmluft Foa L Rapport A1090-F1005,
Nov 1963, 10 pp.
*ACSI J-2287
ID 2204016867

Scientific
Biological & Medical Sciences (Contd)

The Role of Viruses in the Etiology of Res-
piratory Childhood Diseases, by W. W. Ritowa,
SWISS, per, Paediat Grenzgeb, Vol V, 1966,
pp 23-34.
HEW NIH 3-18-67

Development of Drug Control and Testing for
1967, by Nguyen Huu Bay, 8 pp.
VIETNAMESE, per, Duoc Hoc, No. 12, 1966,
pp. 1-4.
JPRS 40185

Experiences in Setting Up Installations for
the Production of Veterinary Medicine at Hai
Duong, by Bui Tran Thi, 10 pp.
VIETNAMESE, per, Khoa Hoc Ky Thuat Nong Nghiep,
No 60, Dec 1966, pp. 740-744.
JPRS 40261

Developing Effective Army Medical Cadres and
Army Pharmaceutical Laboratories, by Nguyen
Tran Thiet, 6 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, No. 12, 1966,
pp. 19-21.
JPRS 40185

Health Branch Exhorted to Complete Responsibil-
ities of 1967 Plan, by Dr. Nguyen Van Tin, 6 pp.
VIETNAMESE, np, Suc Khoe, No. 64, 10 Jan 1967,
pp. 1 & 8.
JPRS 40042

Principal Scientific Research Projects of the
Vietnamese Ear, Nose and Throat Branch during
the Past Few Years, by Nguyen Huu Tuoc and
Nguyen Van Duc, 7 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc,
No. 12, pp. 17-20.
JPRS 40231

The Development and Practice of Otorhinolaryn-
gology in Vietnam during the Last Twenty Years,
by Tran huu Tuoc, 6 pp.
VIETNAMESE, per, Y-hoc Thuc-hanh, No. 138, Dec
1966, pp. 1-4.
JPRS 40185

Scientific
Chemistry

Utilization of L and D-Amino Acids by
B. Brevis, by A. S. Konikova.
RUSSIAN, per, Biokhimiya, Vol XIII,
1948, pp 115-123.
*NASA TT-F-10887

The Change in the Biochemical and Techno-
logical Properties of Flour in the Comminution
Process, by E. J. Kaminski,
RUSSIAN, per, Biokhimiya Zerna i Khlebo-
pecheniya, No 7, 1964, pp 117-138.
NLL RTS 2902
(On Loan or Purchase)

Isobaric-Isothermal Potential Change Under
Standard Conditions of γ -Caprolactam
Polymerization Reaction, by I. E. Paukov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 126, No 2,
1959, pp 325-326.
Chem Trans Sv 2988

Regulating the Supramolecular Structure of
Polymers by the Addition of Artificial
Crystallization Nuclei, by V. A. Kargin.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 156,
No 5, 1964, pp 1156-1158.
Chem Trans Sv 2678

Catalytic Activity of Cationic Exchange Resins
in Alkylation Reactions, by O. N. Tsvekov.
RUSSIAN, per, Dokl. Akad. Nauk SSSR, Vol 167,
No 1, 1966, pp 115-118.
Chem Trans Sv 2907

Oxidative Regeneration Kinetics of Zeolites
in Relation to Their Structure, by P. N.
Galich.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 168,
No 2, 1966, pp 279-381.
Chem Trans Sv 2969

Adsorption of Benzene Vapor on the Hydrogen
and Decationized Forms of Zeolites, by G. V.
Tsitshvili.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 168, No 4,
1966, pp 860-863.
Chem Trans Sv 3112

Promoting Action of Water in the Cracking
Reaction on Type Y Zeolites, by H. S. Thong.
RUSSIAN, per, Dokl. Akad. Nauk SSSR, Vol 168,
No 5, 1966, pp 1114-1116.
Chem Trans Sv 3089

Scientific
Chemistry (Contd)

Catalytic Dehydrogenation of Alkyl Aromatic
Compounds, by A. A. Artamonov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 168,
No 6, 1966, pp 1311-1314.
Chem Trans Sv 3097

Derivatives of Trichlorethylphosphinic Acids
and Some of Their Properties, by K. V.
Mikonorov, E. A. Gurylev, F. F. Fakhrislamova,
T. V. Raspopova, L. G. Urazayeva, M. G. Berim,
K. B. Brudnaya, Ye. K. Naumova and T. L.
Nosyreva, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR,
Vol 172, No 2, 1967, pp. 353-356.
JPRS 40270

The Solubility of Steel Alloying Elements
in Cr_7C_3 and $Cr_{23}C_6$ Carbides, by
L. V. Zaslavskaya, et al,
RUSSIAN, rpt, Fazovyi Sostav. Strukt. i
Svoist. Legir. Stal. i Splavov. Mash.,
1965, pp 138-149.
NLL 9022.4 (66/29)

New Technological Methods in Processing Meat
Products, by A. A. Sokolov, 22 pp.
RUSSIAN, bk, Fiziko-Khimicheskiye i Biokhimiches-
kiye Osnovy Tekhnologii Myaso-Produktov, 1965,
pp. 432-442 and 488-490.
JPRS 40119

Research on Stimulators of Drop
Distillation, by I. M. Mirkis.
RUSSIAN, rpt, Issledovanie Stimulyatorov
Kapel'noi Distillyatsii, Moscow 1966, 12p.
*AEC

Research Investigations Carried Out in an
Experimental Thermal Compression
Desalination Plant, by S. N. Filippov, et al.
RUSSIAN, rpt, Issledovaniya na Opytno-
Promyshlennoi Termokompressionnoi
Opresnitel'noi Ustanovke, Moscow 1966, 2p.
*AEC

Oxide Films on Silicon, by V. A. Arslambekov,
G. V. Smirnov, 14 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Neorganicheskie Materialy, Vol 2, No 2, 1966,
pp 217-222. P911103867
AEC NP-Tr-1502

Scientific
Chemistry (Contd)

Bone Properties of the Oxygen Effect, by
S. N. Ardashnikov,
RUSSIAN, per, Izdatel'stvo Akademii Nauk
SSSR, 1960, pp 146-152. P911100567
AEC-NP-TR-1479

Investigations in the Field of Benzofuran
Derivatives, by A. L. Andzhoyan,
RUSSIAN, per, Izv. Ak Nauk ArmySSR, Seriya
Khim. Nauk, No 1, 1958, pp 45-56.
NLL RTS 3577
(On Loan or Purchase)

Synthesis of 1.10-Decanedicarboxylic and
1.14-Tetradecanedicarboxylic Acids, by
A. N. Nesmeyanov, et al,
RUSSIAN, per, Izv. AN SSSR Otdel. Khim.
Nauk, No 4, 1955, pp 657-664.
NLL 5828.4F (5906)

On the Rate of Fall of Solid Particles in a
Vibrating Viscous Medium, by G. D. Krasnov
and Yu. R. Mayevskiy,
RUSSIAN, per, Izv. AN SSSR OTN Metallurg. i
Gorn. Delo, 1964, No 5, pp 179-184.
NLL 9022.84B 1966 (1293)

A Laboratory Method of Obtaining Granular
Ammonium Nitrate, by N. P. Kurin, et al,
RUSSIAN, per, Izv. Tomsk. Polit. Inst.,
Vol LXXXIII, 1956, pp 175-188.
NLL 9022.27 1965 (745)

Refining and Chemistry of Petroleum and
Gas. Oil-Soluble Sulfonates From Extracts
of Phenol Purification, by I. P. Lukashevich,
Ya. I. Eminbeili,
RUSSIAN, per, Iz VUZ Neft' i Gaz, Vol VIII,
No 12, 1965, pp 65-67.
Chem Trans Sv No 2439

To the Question of Determination of the Optimal
Capacity of the Petro-Chemical Industries,
by E. S. Doluchanov.
RUSSIAN, per, Izv. Vysshikh Uchebn. Zavedenii,
Neft' i Gaz, Vol 6, No 12, 1965, pp 111-116.
Chem Trans Sv 2430

The Catalytic Activity of Doubly Promoted
Iron-nickel Alloys in the Ammonia Synthesis
Reaction, by V. Ya. Zabuga and
G. P. Markova,
RUSSIAN, per, Kataliz i Katalizatory AN Ukr.
SSR, 1965, pp 5-13.
NLL 5828.4F (11677)

Scientific
Chemistry (Contd)

Ammonia Catalysis, by M. T. Rusov,
RUSSIAN, per, Kataliz i Katalizatory AN Ukr.
SSR, 1965, pp 24-35.
NLL 5828.4F (11678)

Adducts of Urea with Some Fatty Acids, by
N. Z. Rudenko,
RUSSIAN, per, Khimiya i Khimicheskaya
Tekhnologiya, No 1, 1966, pp 67-71.
ACSI J-1839
ID 2204010267

Nitric Acid Apatite Solutions in the
Production of Complex Fertilizers,
by V. I. Hladushko.
RUSSIAN, per, Khim Prom Nauk-Tekhn ZB,
No 3, 1964, pp 43-45.
Chem Trans Sv No 3058

Removal of Hydrogen Sulfide From Liquefied
Gases With Monoethanolamine,
by M. Z. Tagirov, M. P. Mazin.
RUSSIAN, per, Khim i Tekhnol Toplivo i
Masel, Vol IX, 1964, pp 34-35.
Chem Trans Sv No 3067

Investigations of the Detergent Effect of
Engine Oil Additives Under the Influence
of an Electric Field, by G. I. Shor, et al,
RUSSIAN, per, Khim. i Tekhnol. Toplivo i
Masel, No 2, 1966, pp 38-43.
NLL 9022.9 (1123)

Corrosion Nickel-Chromium-Molybdenum Alloys
and Anodically Protected Titanium in Hydrochloric
Acid by M. N. Pokin, et al.
RUSSIAN, per, Khimicheskoe i Neftyanoe
Mashinostroyeniye, Vol VIII, 1965, pp 19-23.
Chem Trans Sv No 2203

On the Question of Achieving a Scale-Less
Operation of Desalination Plants, by
A. I. Kalabin, et al,
RUSSIAN, rpt, K Voprosu ob Osnovnykh
Resheniyam Reshima v Osnovnykh
Ustanovkakh, Moscow, 1966, 7 pp.
4480

The Alkylation of Benzene With Propylene on
Synthetic Zeolites, by Kh. M. Minachev.
RUSSIAN, per, Neftkhimiya, Vol 5, No 5, 1965,
pp 676-682.
Chem Trans Sv 2906

Scientific
Chemistry (Contd)

Oxidation of Isopropyl Alcohol by Cobalt (III) Acetylacetonate, by V. M. Solyanikov, E. T. Denisov.
RUSSIAN, per, Neftekhimiya, Vol VI, No 1, 1966, pp 97-100.
Chem Trans Sv No 2657

Preparation of Allylphenols for the Production of Oil Additives of an Aluminosilicate Catalyst, by I. B. Bronfin.
RUSSIAN, per, Neftepererabotka i Neftekhimiya, Vol 1966, No 1, pp 20-22.
Chem Trans Sv 2904

Desalting of Saline Waters by Electrodialysis in Labyrinth-Type Equipment, by V. L. Besman, 10 pp.
RUSSIAN, rpt, Opreseniye Solonovatykh Vod Elektrolizom v Apparatakh Labirintnogo Tipa, 1966.
*AEC

Desalination Plant of the Steam Compression Type, by E. A. Fedorov.
RUSSIAN, rpt, Opresnitel'naya Ustanovka Parokompressionnogo Tipa, Moscow, 1966, 3p.
*AEC

Biochemical and Enzymatic Activity of Pinetum Litter, by V. P. Kornev, 9 pp.
RUSSIAN, per, Pochvovedenie, No 11, 1962, pp 109-114.
CFSTI TT-66-51088

Prevention of Carbonate Scale Formation in Distillation Desalination by Means of Seeding, by V. B. Chernozubov, et al,
RUSSIAN, rpt, Preotvrezhdenie Karbonatnoi Nakipi s Pomoshch'yu Zatravki Pri Opresenii Distillyatsiei, Moscow, 1966, 7 pp.
*AEC

Extraction of Nitric Acid by Dibutyl Ether, by B. M. Vdovenko, A. S. Krivokhatskii,
RUSSIAN, per, Radiokhimiya, Vol I, No 4, 1959, pp 454-457.
Chem Trans Sv No 2791

The Use of Coprecipitation for Concentration, by N. A. Rudnev and G. I. Malofeyeva,
RUSSIAN, per, Tr. Kom. po Analit. Khim. AN SSSR, Vol XV, 1965, pp 224-235.
NLL 9022.4 (66/102)

Scientific
Chemistry (Contd)

Basic Data and Aims for Future Investigations into the Use of Organic Coprecipitants for the Concentration of Metal Traces, by V. T. Chuiko,
RUSSIAN, per, Trudy Kom. po Analit. Khim., Vol XV, 1965, pp 236-243.
NLL 9022.4 (66/103)

New Development in Organic Coprecipitants, by V. I. Kuznetsov,
RUSSIAN, per, Tr. Kom. po Analit. Khim. AN SSSR, Vol XV, 1965, pp 279-295.
NLL 9022.4 (66/104)

A Theoretical Investigation by Means of Free Electrons of the Reactivity in Substitution Reactions of the Molecules with Conjugate Bonds, by M. M. Adamov and I. F. Tupitsyn,
RUSSIAN, per, Vestnik Leningradskogo Univ. Seriya Fiziki i Khimii, Vol XVI, No 5, 1962, p. 47-65.
NLL RTS 3025
(On Loan or Purchase)

Polycondensation Reactions in the Solid Phase. II. Polycondensation of Aminoheptanoic Acid in the Solid Phase in the Presence of Catalysts, by A. V. Volodina, G. P. Kudryavtsev.
RUSSIAN, per, Vysokomolekul. Soedin, Vol 1, No 11, 1959, pp 1724-1732.
Chem Trans Sv 3092

Synthesis of Graft Copolymers, II., by V. V. Korshak.
RUSSIAN, per, Vysokomolekul. Soedin, Vol 6, No 10, 1962, pp 1669-1673.
Chem Trans Sv 3115

Structural Investigation of the α - and β -Form of Polyvinylidene Fluoride, by ... I. Markarevich.
RUSSIAN, per, Vysokomolekul. Soedin, Vol 7, No 10, 1965, pp 1673-1677.
Chem Trans Sv 2994

Study of the Structure and Properties of Polyethylene Fibers, by Yu. D. Andrichenko,
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol VII, No 12, 1965, pp 2126-2131.
ACST J-1659
ID 2204003767

Scientific
Chemistry, (continued)

Polyphenyltridinylenes and Polydiazapyrenylene
Alkyls (Aryls), by G. S. Kolesnikov.
RUSSIAN, per, Vysokomolekul. Soedin. Vol 8, No
6, 1966, pp 1135-1136.
Chem Trans Sv 3110

Crystallization of Selenium-Containing
Electrophotographic Layers, by I. D. Nabitovich,
et al.

RUSSIAN, per, Zh Nauchn i Prikl Fotogr i
Kine, Vol XI, No 11, 1966, pp 27-31.
Chem Trans Sv No 2622

Trimer of Acetaldehyde. 2,4-Dimethyl-6-
Hydroxydioxane, by P. S. Shantarovich.
RUSSIAN, per, Zh. Obshch. Khim., Vol 36, No 5,
1965, pp 794-797.
Chem Trans Sv 2820

Esters of Alpha-Cyanovinyl-Phosphonic Acid,
by A. N. Pudovik and G. E. Yasterbova, et al,
RUSSIAN, per, Zhurnal Obshchey Khimii, Vol
XXXVI, No 7, 1966, pp 1232-1236.
*ACSI J-2106
ID 2204013967

Study of the Change in Surface Composition
of Cu-Ni System Alloys Under the Influence
of Corrosive Medium by Method of Work
Function Measurement, by V. N. Lepeshinskaya,
RUSSIAN, per, Zh. Prikl. Khim., Vol XXXVIII,
No 7, 1965, pp 1556-1562.
NLL 5828.4 1965 (5842)

Method of Preparation of Type X Synthetic
Zeolites.
RUSSIAN, Patent 170,912 June 14, 1965.
3p.
Chem Trans Sv No 2704

Method of Alkylation of Aliphatic-Aromatic
and Aromatic Hydrocarbons, by S. A. Daitriev.
RUSSIAN, Patent No 173,212, 21 July 1965, 3 p.
Chem Trans Sv 2927

Preparation of Foamed Polyurethanes, by
F. A. Kryuchkov and N. V. Chistyakova,
RUSSIAN, Patent No 175,941, 1965.
ACSI J-1653
ID 2204003367

Process for Inhibiting Corrosion.
BELGIAN Patent, 636,460, Sept 13, 1965.
Chem Trans Sv No 2511

Chemistry, (continued)

Process for Preparation of Chlorine From
Hydrochloric Acid,
BELGIAN, Patent, 658,435, Jan 15, 1965, 5 p.
Chem Trans Sv No 2707

Composition to Prevent Salt From Gelling
and Agglomerating.
BELGIAN, Patent 659,996, Feb 19, 1965, 12p.
Chem Trans Sv No 3034

Process and Apparatus for Continuous Preparation
of Alkali Bicarbonates From Alkali
Chlorides and Carbon Dioxide in the
Presence of Triethylamine,
BELGIAN, Patent, 661,079, (Improvement in
Belgian Pat 636,709) Mar 12, 1965, 7p.
Chem Trans Sv No 2708

Catalysts for the Preparation of Unsaturated
Carboxylic Acids and Process for Obtaining
Them, 10 pp.
BELGIAN, Patent 625,912, 31 Dec 1962.
Standard Oil Co.
Chem Trans Sv 3036

Process for Production of Allyl Esters,
Especially Vinyl Acetate.
BELGIAN, Patent No 672,580, 19 Nov 1965, 10 p.
Societa Italiana Resine S.p.A.
Chem Trans Sv 2793

Investigation of Equilibrium in the Ternary
Salt System $\text{NH}_4\text{NO}_3 - \text{CO}(\text{NH}_2)_2 - \text{NH}_4\text{Cl}$, by
D. Trandafelov, Ts. Kovachev.
BULGARIAN, per, Khim i Ind., 1965, pp 174-
178.
Chem Trans Sv 2931

The Leading Position of the Petroleum-Process-
ing and Petrochemical Industries in Bulgaria,
6 pp.
BULGARIAN, per, Khimiya i industriya, No. 7,
Nov 1965, pp. 289-292.
JPRS 40305

Flow Method of Producing a Mixture of Air
With Chlorine of Low Concentration, by
J. Bittmanova, C. Deyl.
CZECH, per, Acta Univ Palackianae Olomuc.
Vol XIII, No 5, 1964, pp 5-12.
Chem Trans Sv No 3049

Scientific
Chemistry (Contd)

The Sorption of Trace Quantities of Elements on Glass, by Peter Benes,
CZECH, per, Chemicke Listy, Vol LX, No 2,
1966, pp 153-178.
*Dept of Navy/NRL

Distillation Apparatus for Obtaining Water of High Purity, by Viktor Ettel and Josef Veprek-Siska,
CZECH, per, Chemicke Listy, Vol LX, No 3, 1966,
pp 340-342.
*Dept of Navy/NRL

On Obtaining "Optically Pure" Distilled Water by Kvetoslav Spurny,
CZECH, per, Chemicke Listy, Vol LX, No 3,
1966, pp 343-345.
*Dept of Navy/NRL

Effect of the Optical Sensitization of Polymethine Dyes as a Function of Their Structure and Physicochemical Properties, by I. I. Levkojev.
CZECH, per, Chemicke Listy, Vol LX,
1966, pp 791-806
Chem Trans Sv No 2893

The Solubility of Chlorine, Hydrogen Chloride and Methyl Chloride in Some Solvents, by M. Curda, J. Holas.
CZECH, per, Chem. Prumysl, Vol 14, No 10,
1964, pp 547-548.
Chem Trans Sv 3052

The Structure of Impact Resistant Polystyrene, by Zolenek Zamorsky.
CZECH, per, Chem. Prumysl, Vol 15/40, No 6,
1965, pp 341-347.
Chem Trans Sv 3072

Alkaline Activated Polymerization of 6-Caprolactam, by J. Vylet.
CZECH, per, Chemicky Prumysl, Vol 15,
Dec 1965, pp 722-724.
Chem Trans Sv 2952

Production of Hydrogen and Chlorine by the Electrolysis of Hydrochloric Acid, by J. Sucharda.
CZECH, per, Chemicky prumysl, Vol XV,
Nov 1966, pp 690-691.
Chem Trans Sv No 2919

Scientific
Chemistry (Contd)

A Contribution to the Study of the Kinetics of formation of Furfuryl Alcohol Resins, by J. Mistrik and S. Bobula,
CZECH, per, Chemicke Zvesti, Vol XV, 1961,
pp 625-630. P911099567
AEC-LA-TR-67-67

The Theory of Porous Electrodes. I. Fundamental Equations, by K. Micka.
CZECH, per, Coll. Czech. Chem. Comm., Vol 29,
No 9, 1964, pp 1998-2007.
Chem Trans Sv 3046

A Process for the Production of O, O-Dimethyl-O-(3-Methyl-4-Nitrophenyl)-Thiophosphate and its Application as Vermin Killing Agent, by J. Drabek, S. Truchlik.
CZECH, Patent No 89,124, 15 Mar 1959, 4 p.
Chem Trans Sv 2807

Method and Devices to Produce Exothermic Reactions at Increased Pressures and Temperatures, Such as Synthesis of Ammonia, by M. Baumann.
CZECH, Patent No 105,734, 15 June 1962, 15 p.
Chem Trans Sv 2209

A Method for the Electrochemical Tracing and Removal of Halogen From Gases, by Jaroslav Soucek, et al.
CZECH, Patent, 112,574, Nov 15, 1964, 3p.
Chem Trans Sv No 3041

Process for the Preparation of Water-Soluble Phosphates, N. V. Stamicarbon
DUTCH, Patent 64-03053, Sept 22, 1965,
10 p.
Chem Trans Sv No 2865

Process for Electrolyzing an Alkali Metal Chloride.
DUTCH, Patent 64-04270, Oct 21, 1965, 7p.
Chem Trans Sv No 3032

Process for the Preparation of Heterocyclic Aromatic Pigments, by J. R. Geigy AG.
DUTCH, Patent 64-14313, June 11, 1965, 22pp.
Chem Trans Sv No 2742

Process for Manufacture of Copies,
DUTCH, Patent 64,15234, July 2, 1965, 16p.
Chem Trans Sv No 2677

Scientific
Chemistry (Contd)

Process for Preparation of Dyes,
DUTCH, Patent 65-045666, (Supplement to
Pat Appl 296,933), Oct 11, 1965. 8 p.
Chem Trans Sv No 2595

Process for Preparation of Preparations for
Care of the Skin.
DUTCH, Patent Appl. 65-06718, Nov 29, 1965.
Chem Tran Sv No 2747

Process for Detection of Chemical Materials
in Liquids, Especially for Medical Diagnoses, and
Process for Preparation of a Composition to be
Used as Reagent in Addition,
DUTCH, Patent Appl 65-07633, Dec 16, 1965.
Chem Tran Sv No 3077

Process for the Preparation of Highly Dispersed
Inorganic Mixtures Particularly Mixtures
Containing Silicon Dioxide,
DUTCH, Patent 65-09169, Jan 19, 1966. 13 p.
Chem Trans Sv No 2929

Process for Stretching and Tightening
the Diaphragms in Cells of the Filter
Press Construction for the Electrolysis
of Aqueous Hydrochloric Acid.
DUTCH, Patent 65-09903, Jan 31, 1966, 3p.
Chem Trans Sv No 3029

Process for the Adjustment of an Anode
With Respect to the Cathode Surface of
a Cell With Mercury Cathode for the
Production of Chlorine by Electrolysis of
an Alkali Metal Chloride Solution, and
Process for the Operation of Such a Cell With
a Number of Anodes.
DUTCH, Patent, 65-10362, Feb 14, 1966, 9p.
Chem Trans Sv No 3028

Process for the Production of Chlorine Dioxide,
DUTCH, Patent 65-10600, Feb 14, 1966, 8p.
Chem Trans Sv No 3027

Process for the Preparation of Chlorine
Dioxide,
DUTCH, Patent 65-10601, Feb 14, 1966, 9p.
Chem Trans Sv No 3026

Process for the Extraction of Chlorinated
Hydrocarbons.
DUTCH, Patent 65-11160, Feb 28, 1966, 16 p.
Chem Trans Sv No 2748

Scientific
Chemistry (Contd)

Process for the Chlorination of Toluene,
DUTCH, Patent 65,11484, Mar 3, 1966, 10p.
Chem Trans Sv No 2645

Process for the Preparation of Catalysts, 9 pp.
DUTCH, Patent Appl. 65-12643, (Netherlands),
4 Apr 1966. FMC Corporation.
Chem Trans Sv 3133

Process for the Regulation, During Operation,
of the Distance Between the Electrodes of
Electrolysis Cells With Movable Mercury Cathode
by Solvay and Cie,
DUTCH, Patent 65,13134, Apr 20, 1966, 4p.
Chem Trans Sv No 3024.

Action of Hydrogen Chloride on Silica Gels,
by M. Baverez, et al.
FRENCH, per, Bull Soc Chim France,
No 6, 1964, pp 1298-1301.
Chem Trans Sv No 2706

Propagation of the Detonation in Pure or
Dilute Chlorine Dioxide. Theoretical Study:
Detonation Swiftmess, Influence of the
Diameter of the Tube and "Spin", by M. Caid.
FRENCH, per, Bull. Soc. Chim, 1966, pp 168-
173.
Chem Trans Sv 2796

Ene Synthesis: Condensation of Maleic
Anhydride With Olefins, by C. Agami.
FRENCH, per, Bull Soc. Chim, No 4, 1966,
pp 1195-1201.
Chem Trans Sv 3107

Semiannual Report Chemistry Department November,
1965 - May, 1966.
FRENCH, rpt, Centre d'Etudes Nucleaires de
Fontenay-aux-Roses, Direction des Matériaux et
Combustibles Nucleaires, Departement de Chimie,
Dec. 1966.
*AEC ORNL-tr-1674

Polymerization of Tetrafluoroethylene Oxide,
by P. Barnaba.
FRENCH, per, La Chimica e l'Industria,
Vol 47, No 10, 1965, pp 1360-1363.
Chem Trans Sv 2658

Scientific
Chemistry (Contd)

Dielectric Properties of Ta_2O_5 Films in Electrolytes, by M. Hartl, E. Pauli.
FRENCH, per, Electrochimica Acta, Vol 11, 1966, pp 1417-1424.
Chem Trans Sv 3115

Saturation of the Optical Absorption of Some Phthalocyanine Solutions, by F. Gires, F. Gombaudo.
FRENCH, per, J. Phys Radium, Vol XXVI, 1966, pp 325-330.
Chem Trans Sv No 2580

Underground Cavities for Refinery Storage of Liquefied Petroleum Gas by Al.R.D. Sowards.
FRENCH, per, Rev Assoc Franc Techniciens Petrole, Vol CLXXVIII, 1966, pp 39-46.
Chem Trans Sv No 3095

Synergistic Action Between the Derivatives of Chlorogenic Acid and 3-Indoleacetic Acid, by J. P. Nitsch, C. Nitsch, 8 pp.
FRENCH, Bulletin, Societe Botanique de France, Vol 106, No 9, 1959, pp 414-417.
SIA TT-66-10219

Improvements in the Manufacture of Bromites, FRENCH, Patent Appl P.V. 70,406, July 22, 1966, 14 p.
Chem Trans Sv No 3076

Novel Esters of Thiophosphoric Acid and Process of Their Manufacture, by A. G. Bayer, 8 pp.
FRENCH, Patent No 1,093,728.
Dept of Comm
Patent Office

Process for Preparation of a Zeolite.
FRENCH, Patent 1,213,628, Nov 2, 1959, 11 p.
Chem Trans Sv No 2734

New Fluorinated Polyethers Obtained From Perfluoroolefin Epoxides and Their Process for Preparation, 6 pp.
FRENCH, Patent 1,366,119, 1 Jun 1964.
E. I. du Pont de Nemours & Co.
Chem Trans Sv 2513

Scientific
Chemistry (Contd)

New Fluorocarbonated Polyethers With Terminal Hydrogen Atoms, 13 pp.
FRENCH, Patent 1,373,014, 17 Aug 1964.
E. I. du Pont de Nemours & Co.
Chem Trans Sv 2514

Process for Preparation of Aqueous Solutions of Hypochlorites, in Particular by Chlorination of Milk of Lime,
FRENCH, Patent 1,375,566, Sept 7, 1964, 6p.
Chem Trans Sv No 2288

Process for Preparation of Aromatic Carboxylic Acids,
FRENCH, Patent 1-384,187, Nov 23, 1964, 15p.
Chem Trans Sv No 2746

Chromium Plating Process.
FRENCH, Patent 1,400,157, Apr 12, 1965.
Chem Trans Sv No 2698

Process for Preparation of Alkyl Aluminums.
FRENCH, Patent No 1,407,222, 21 June 1965, 16 p.
Sumitomo Chemical Co., Ltd.
Chem Trans Sv 3007

Process for Manufacture of Chlorinated Hydrocarbons.
FRENCH, Patent 1,409,695, July 19, 1965, 8p.
Chem Trans Sv No 2428

Process for Oxychlorination of Olefins,
FRENCH, Patent 1,410,161, July 26, 1965, 7p.
Chem Trans Sv No 2427

Oxides of Amines and Their Preparation Process, 8 pp.
FRENCH, Patent 1,418,653, 11 Oct 1965, Armour Hess Chemicals, Ltd.
Chem Trans Sv 3106

Process for Continuous Production of Polycondensation Reaction Products, 9 pp.
FRENCH, Patent 1,410,672, 11 Oct 1965.
Rayon Kabushiki Kaisha.
Chem Trans Sv 2903

Process for the Regulation During Operation of the Distance Between the Electrodes in Electrolysis Cells With Movable Mercury Cathode,
FRENCH, Patent 1,420,862, Nov 2, 1965,
Chem Trans Sv No 2711

Scientific
Chemistry (Contd)

Improved Process for the Manufacture of Chlorine.

FRENCH, Patent 1,421,608, Nov 8, 1965. 11p.
Chem Trans Sv No 2713

Process for Polymerization of Ethylene or Conjugated Diolefins, 33 pp.

FRENCH, Patent, 1,425,276, 13 Dec 1965.
Esso Research & Engineering Co.
Chem Trans Sv 2799

Hydraulic Fluids Based on Alkyl Monoethers of Polyoxyallylene Glycols.

FRENCH, Patent No 1,425,927, 13 Dec 1965, 7 p.
The Dow Chemical Co.
Chem Trans Sv 3086

Process for Manufacture of Chlorine by Electrolysis of Hydrochloric Acid,

FRENCH, Patent 1,438,213, Apr 4, 1966, 4p.
Chem Trans Sv No 3019

Advance Developments in the Area of Irritant Chemical Agents, by H. Swart,

GERMAN, rpt, 1966, 10pp.
ACSI J-2243
ID 2204016367

The Anomalous Change in Volume of the Mixed Crystal Series (Fe, Cr)₂C and Its Particular Thermo-Chemical and Magnetic Behaviour, by H. Kudielka.

GERMAN, per, Arch. Eisenh, Vol 37, Sep 1966, pp 759-766.
BISI 5250

Chromium Compounds in the Chemical Industry by P. Henkel.

GERMAN, per, Bayer-Berichte, Vol XVII, 1966, pp 24-28.
Chem Trans Sv No 2809

Electrographite, Its Production and Properties, by F. Jeitner, et al.

GERMAN, per, Ber Deut Keram Ges, Vol XLI, No 2, 1964, pp 135-144.
Chem Trans Sv No 2828

Problem of Phase Stability of SiC, by R. Kieffer,

GERMAN, per, Berichte der Deutschen Keramischen Gesellschaft, Vol XLIII, No 10, 1966, pp 621-623.
*NASA TT F-10,929

Scientific
Chemistry (Contd)

Biosynthesis in the "Cobalamin" Series, Part VI, Intermediate Products of Biosynthesis of Vitamin B₁₂ by Propionibacterium Shermanii, by K. Bernhauer and E. Becher, et al, GERMAN, per, Biochemische Zeitschrift, Vol CCCXXXII, 1960, pp 562-572. P911106667
AEC-NP-TR-1485

The Surface Tension and State Variables Used for Water, by U. Grigull, J. Bach.

GERMAN, per, Brennstoff-Waerme-Kraft, Vol 18, No 2, 1966, pp 73-75.
Chem Trans Sv 2745

The Action of Dicumyl Peroxide on Polyolefins and Their Mixtures, by J. Barton.

GERMAN, per, Chemische Zvesti, Vol 20, 1966, pp 169-179.
Chem Trans Sv 2614

Lowering of the Current Costs of Hydrochloric Acid Electrolysis, by

E. Donges, H. G. Janson.
GERMAN, per, Chemie Ing Techn, Vol XXXVIII, 1966, pp443-445.
Chem Trans Sv No 2826

The Synthesis of Polymers Resistant to High Temperatures, by H. F. Mark.

GERMAN, per, Chemiker Zeitung, Vol 90, No 12, 1966, pp 403-408.
Chem Trans Sv 2993

Report on the Stereochemistry of Scopolin and Scopolin, by Alex Heusner, 8 pp.

GERMAN, per, Chemische Berichte, Vol LXXXVII, No 7, 1954, pp 1063-1067.
Dept of Comm
Patent Office

The Electrochemical Synthesis of Metal Alkyls, by K. Ziegler.

GERMAN, per, Chem. Ing. Tech., Vol 35, 1963, pp 325-331.
Chem Trans Sv 3168

Combined Preparation of Tetraethyl Lead and Tetramethyl Lead, by H. Lehmluhl.

GERMAN, per, Chem Ing. Tech., Vol 36, 1964, pp 612-616.
Chem Trans Sv 3167

Scientific
Chemistry (Contd)

Corrosion Protection by Pigments. by J.
D'Ans, V. Groope.
GERMAN, per, Deutsche Farben Zeit, Vol XV,
No 2, 1961, pp 51-55.
Chem Trans Sv No 2754

Corrosion Protection by Pigments, by
J. D'Ans, V. Groope.
GERMAN, per, Deutsche Farben Zeitschrift,
Vol XV, No 3, 1961, pp 99-104.
Chem Trans Sv No 2755

The Influence of Particle Size and Particle
Charge on Interactions Between Pigments
and Other Substances, Exemplified by
Titanium Dioxide, by H. Rechmann.
GERMAN, per, F.A.T.I.P.E.C. Congr.,
Vol VII, 1964, pp 3-11.
Chem Trans Sv No 2662

Cold Curing of Unsaturated Polyester Resins,
by H. Twittenhoff.
GERMAN, per, Fette Seifen, Anstrichmittel,
Vol 67, No 12, 1965, pp 1000-1003.
Chem Trans Sv 2469

Comparison of the Flotation Behavior of Sylvite,
Rock Salt and Quartz With n-Alkylamines,
by H. Schubert.
GERMAN, per, Freib Forsch., Vol ACCCXXVI,
1964, pp 77-90.
Chem Trans Sv No 2680

Blocpack-F (For Hot and Cold Packaging of Fruit
Jucies and Liquids Requiring Greater Stability,
GERMAN, rpt, Fuer Dieheiss und Kaltabfuellung
Von Fruchtscheften umf Fruchtsaftgetranken
mit Langer Haltbarkeit, 6 pp.
ACSI J-1350
ID 2204059566

Ion Bridges in Macromolecular Networks, by
H. J. Kuhn, W. G. Pohl.
GERMAN, per, Helv. Chim. Acta, Vol 49, No 23,
Jan 1966, pp 174-184.
Chem Trans Sv 2590

Ethylene/Propylene Terpolymers, by R. German.
GERMAN, per, Kautschuk und Gummi Kunststoffe,
Vol 19, No 2, 1966, pp 67-76.
Chem Trans Sv 2661

Scientific
Chemistry (Contd)

Acid Nature and Cation Bonding of Phenol
Resins With Ortho-Structure, by Kurt Hultzsck,
Wolfgang Hesse, 23 pp.
GERMAN, per, Kunststoffe, Vol 53, No 3, 1963,
pp 166-172. Pyl1105467
AEC SC-T-67-0905

The Significance of Absorption Curves in the
Selection of Cationic Dyes for Dyeing
Polyacrylonitrile Fibers, -I. by
U. Mayer, et al.
GERMAN, per, Melliand Textilberichte,
Vol XLVII, No 6, 1966, pp 653-657.
Chem Trans Sv No 2736

Summary of Present Concepts of Spectral
Sensitization, by E. Klein, R. Matejec.
GERMAN, per, Mitt Forschungslab Agfa
Leverkusen-Muenchen, Vol IV, 1964,
pp 16-37.
Chem Trans Sv No 2100

Growth and Crystal Form of the Silver
Halide Crystals of Photographic
Emulsions, by E. Klein, E. Moisar.
GERMAN, per, Mitt Forschungslab Agfa
Leverkusen-Muenchen, Vol IV, 1964,
pp 38-64.
Chem Trans Sv No 2226

Twin Formation in Silver Halogenide
Crystals of Photographic Emulsions,
by B. Klein, et al.
GERMAN, per, Mitt Forschungslab Agfa
Leverkusen-Muenchen, Vol IV, 1964,
pp 65-89.
Chem Trans Sv No 2227

Fading With Light and -Irradiation, as a
Function of Radiation Intensity,
by J. Eggers, et al.
GERMAN, per, Mitt Forschungslab Agfa
Leverkusen-Muenchen, Vol IV, 1964,
pp 172-182.
Chem Trans Sv No 2230

On the Chemistry of White Couplers,
by W. Puschel.
GERMAN, per, Mitt Forschungslab Agfa
Leverkusen Muenchen, Vol IV, 1964,
pp 352-367.
Chem Trans Sv No 2102

Scientific
Chemistry (Contd.)

The Crystal Structure of V_2C , by K. Yvon and W. Reiger, et al, GERMAN, per, Monatshefte fur Chemie, Vol XC VII, No 3, 1966, pp 689-694. P911099467 AEC-LA-TR-66-66

Analysis of the Reactions $^{25}Mg(p,p)^{25}Mg$ and $^{24}Mg(d,p)^{25}Mg$ at 5 and 6 MeV, by A. Gallmann, GERMAN, per, Nucl. Physik, Vol LXXXVIII, 1966, pp 654-674. P911106867 AEC-LA-TR-67-1

Investigations of the Strength of Metal Adhesive Bonds, by G. Henning. GERMAN, per, Plaste und Kautschuk, Vol XII, No 8, 1965, pp 459-464. Chem Trans Sv No 2596

Conservation of Ship Bottoms with New Telsys-Antifouling System, by A. Siedentopf, M. Zach. GERMAN, per, Plaste Kautschuk, Vol 12, No 8, 1965, pp 496-498. Chem Trans Sv 2784

Cross-Linking of Polyethylene in the Presence of Other Polymers, by D. Simunkova, R. Rado. GERMAN, per, Plaste und Kautschuk, Vol 13, No 5, 1966, pp 266-268. Chem Trans Sv 3023

Deodorizing and Disinfecting Air Sprays and Their Perfuming, by K. Bergwein. GERMAN, per, Seifen- Oele- Fette- Wachse., Vol 91, No 19, 1965, pp 625-627. Chem Trans Sv 2945

Regeneration of Sulphuric Acid Pickling Solutions Containing Ferric Sulphate by Means of Hydrolysis at Elevated Temperatures, by G. Bruhn. GERMAN, per, Stahl Eisen, Vol 85, 30 Jun 1965, pp 794-799. BISI 4630

The Stereochemical Structure Model, a Mathematical Model for the Group Theoretical Treatment of Dynamic Stereochemistry, by E. Ruch, I. Ugi. GERMAN, per, Theoret Chim Acta, Vol 4, 1966, pp 287-304. Chem Trans Sv 2744

Scientific
Chemistry (Contd)

The Influence of Photogelatin on the I-Aggregation of Carbocyanines, by D. Ollmann, H. Pietsch. GERMAN, per, Veroeffentl Wiss Photolab AGFA, Vol X, 1965, pp 87-100. Chem Trans Sv No 2982

For the Purification of Water: Production of Chlorine Dioxide From Sodium Chlorite (Part I) GERMAN, per, Wasser Luft und Betrieb, No 8, 1961, pp 332-336. Chem Trans Sv No 2824

Preparation of Chlorine Dioxide From Sodium Chlorite, by Frohler. GERMAN, per Wasser, Luft und Betrieb, No 9, 1961, pp 380-387. Chem Trans Sv No 2825

The Technological Properties and Corrosion Behavior of a Titanium Alloy With 0.20/o Palladium, by K. Rudinger. GERMAN, per, Werk und Korrosion, Vol IV, No 2, 1965, pp 109-115. Chem Tran Sv No 2201

Photometric Determination of Cation Tensides and Cation-Active Amphotensides, by E. Ruf. GERMAN, per, Z. Anal Chem, Vol CCIV, 1964, pp 344-355. Chem Tran Sv No 2946

Separation Process for the Isolation of Pu, Np, Zr, Nb, Mo, Tc, Te and U From Fission Product Solutions, by Ilse Markl, O. Bobleter, 21 pp. GERMAN, per, Zeitschrift fur Analytische Chemie, Vol 219, No 2, 1966, pp 160-173. P911106267 AEC NP-TR-1503

Spectroscopical Studies on Silicon Compounds Part 25. Infrared and Raman Spectroscopic Studies on Phenyl-Substituted Phenyldimethyl Hydrogensilanes, by P. Reich, H. Kriegsmann. GERMAN, per, Zeit fur Anorganische und Allgemeine Chemie, Vol CCCXXXIV, No 5-6, 1965, pp 272-282. *FTD NT 23-672-67

Scientific
Chemistry (Contd)

Spectroscopic Studies of Silicon Compounds. 28. Spectroscopic Studies of the Properties of the SiH Bond in Trisubstituted Silanes, by H. Kriegsmann, G. Kessler. GERMAN, per, Zeitschrift für Anorganische und Allgemeine Chemie, Vol CCCXLII, No 1-2, 1966, pp 53-62.
*FTD HT 23-677-67

Spectroscopic Studies of Silicon Compounds. Part 29, Properties of Chloromethoxy and Chloroethoxymono-Hydrogen Silanes, by G. Kessler, H. Kriegsmann. GERMAN, per, Zeit für Anorganische und Allgemeine Chemie, Vol CCCXLII, No 1-2, 1966, pp 63-74.
*FTD HT 23-677-67

The Hindered Energy Exchange Between Solid Materials and Absorbed Gas Molecules for Ortho-and Para-Hydrogen, by K. Schafer, S. Stotz. GERMAN, per, Z. Elektrochem, Vol 65, No 7/8, 1961, pp 623-628.
Chem Trans Sv 3063

Biodegradable Detergents in Washing and Cleansing Agents, by M. Rosch. GERMAN, per, Z. Ges. Textil-Ind., Vol 66, 1964, pp 741-744.
Chem Trans Sv 2002

Recrystallization Textures of Commercially Pure Copper, by H. Wallbaum. GERMAN, per, Z. Metallkde, Vol LVII, No 4, 1966, pp 249-259.
Chem Trans Sv No 2668

Sludge Sedimentation Tank Arrangement, by August Schreiber, 17 pp. GERMAN, Patent No 219,511.
Dept of Comm
Patent Office

Pigment and Filler for Paper and Cardboard by Zschimmer, Schwarz. GERMAN, Patent 977,126, Mar 11, 1965, 4 p.
Chem Trans Sv No 2531

Process for the Preparation of Hexachlorocyclopentadiene and/or Octachlorocyclopentene. GERMAN, Patent No 1,013,046. Supplement to GERMAN Patent 943,047, 14 Aug 1957, 7 p.
Hooker Electrochemical Co.
Chem Trans Sv 2774

Scientific
Chemistry (Contd)

Process for Production of a New Copper (I)-Compound of Dimethyldithio-carbamic Acid. GERMAN, Patent No 1,073,474, 21 Jan 1960, 2 p.
UCLAf.
Chem Trans Sv 2939

Process for Curing Polyepoxides, GERMAN, Patent No 1,102,391, 16 Mar 1961, 7p.
Farbenfabriken Bayer AG
Chem Trans Sv 3251

Process for the Three-Step Preparation of Moldable Polymers from Solution, GERMAN, Patent No 1,157,386, 14 Nov 1963, 30 p.
Farbenfabriken Bayer AG.
Chem Trans Sv 3140

Application of the Process for Galvanic Deposition of Metal Coatings by Means of Periodically Alternating Current Reversal to the Electrolytic Production of a Ferric Oxide Layer on Iron. GERMAN, Patent 1,166,583, Oct 22, 1964.
Chem Trans Sv No 2812.

Process for Preparation of Alcohols by Hydrolysis of Aluminum Alcoholates. GERMAN, Patent No 1,170,383, 21 May 1964, 5 p.
Gebrüder Giulini G.m.b.H.
Chem Trans Sv 2979

Fungicidal Agent. GERMAN, Patent No 1,176,918, 27 Aug 1964, 5 p.
Fa. Roussel-Uclaf
Chem Trans Sv 2942

Apparatus for the Separation of Water From Gases Which are to be Investigated in Gas Analysis Apparatuses, 11 pp. GERMAN, Patent 1,183,714 (Exam. Copy). 17 Dec 1964. Siemens & Halske Aktiengesellschaft.
Chem Trans Sv 2843

Apparatus for the Withdrawal of Liquid Samples From a Stream of Liquefied Gas, 4 pp. GERMAN, Patent 1,188,836, 11 Nov 1965.
Chemische Werke Huls Aktiengesellschaft.
Chem Trans Sv 2845

Scientific
Chemistry (Contd)

Process and Apparatus for the Continuous Preparation of Bis-2-Hydroxyethyl Terephthalate, Bis-2-Hydroxyethyl Isophthalate or Their Mixtures or Their Low Polymers, 11 pp. GERMAN, Patent 1,189,060, 18 Mar 1965. Farbwerke Hoechst AG. Chem Trans Sv 2396

Process for the Manufacture of Colorless Polybutadiene, 9 pp. GERMAN, Patent, 1,201,999 (Exam Copy), 30 Sep 1965. Farbenfabriken Bayer Aktiengesellschaft. Chem Trans Sv 2433

Process for Selective Flotation of Sodium Chloride From Salt Mixtures, by Th. Bohme K.G. GERMAN, Patent 1,204,155, Nov 4, 1965, 5 p. Chem Trans Sv No 2846

Process for the Preparation of Carbon Dioxide Ice, by L. Muller GERMAN, Patent, 1,206,869, Dec 16, 1965, 12 p. Chem Trans Sv No 2023

Cathode for an Alkali Chloride Electrolysis Cell Operating According to the Diaphragm Process, by L. Kandler, GERMAN, Patent 1,207,358, Dec 23, 1965, 4p. Chem Trans Sv No 2847

Process for the Cross-Linking of Polyolefins, 8 pp. GERMAN, Patent, 1,208,487, 5 Jan 1966, Dynamit Nobel Aktiengesellschaft. Chem Trans Sv 2430

Process for Preparation of Vinyl Chloride by Thermal Cleavage of Dichloroethane. GERMAN, Patent No 1,210,800, 17 Feb 1966, 5 p. Chemische Werke Huls AG. Chem Trans Sv 3118

Process for Preparation of Surface Active Olefinsulfates Consisting Predominately of Alkenesulfonates, 6 pp. GERMAN, Patent 1,214,671 (Exam. Copy), 21 Apr 1966. Henkel & Cie. Chem Trans Sv 2696

Scientific
Chemistry (Contd)

Apparatus for Production of Sodium Dithionite From Sodium Amalgam and Sulfur Dioxide, by A. Wurbs. GERMAN, Patent 1,215,662, May 5, 1966, 7p. Chem Trans Sv No 2901

Apparatus for the Execution of the Process for the Production of Alcohols by Hydrolysis of Aluminum Alcoholates. GERMAN, Patent No 1,217,938, 2 June 1966. Supplement to GERMAN Patent No 1,170,388, 4 p. Gebr. Giulini G.m.b.H. Chem Trans Sv 2978

Stabilization of Photosensitive Materials by A. Rado. HUNGARIAN, per, Kep es Hangtechnika, Vol XII, No 2, 1966, pp 33-37. Chem Trans Sv No 2762

Progress in the Technology of Cyanuric Chloride Production, by M. Nadasy. HUNGARIAN, per, Magyar Kemikusok Lapja, Vol XX, No 11, 1965, pp 576-579. Chem Trans Sv No 2798

Oil Reforming Catalysts and Catalyst Poisons I, by J. Karolyi. HUNGARIAN, per, Magy Kem Lapja, Vol 21, No 3, 1966, pp 135-140. Chem Trans Sv 3068

Process for the Preparation of Alkyl Aluminum Compounds. GERMAN, Patent No 1,216,304, 12 May 1966, 7 p. Sumitomo Chemical Co., Ltd. Chem Trans Sv 2935

Study of the Oxidation of Magnetites, by U. Colombo, et al, ITALIAN, per, La Chimica e L'Industria, Vol XLVI, No 4, 1964, pp 357-362. *Dept of Navy/NRL

Brief Communications -- Radical Amination of Diphenyl and Fluorene With N-Chlorodimethylamine. ITALIAN, per, Chim Ind., Vol 48, No 7, 1966, pp 716-718. Chem Trans Sv 3113

Scientific
Chemistry (Contd)

Aromatic Radical Monoalkylation With
N-Chloroamines.
ITALIAN, per, Chim Ind, Vol 48, No 7, 1966,
p 725.
Chem Trans Sv 3114

Basic of and Recent Advances in Spot Tests,
by Takeichi Sakaguchi,
JAPANESE, per, Bunseki Kagaku, Vol XV, 1966,
pp 187-193. P911100867
AEC-LA-TR-66-65

Studies of Vertical Mercury Cell With
Cylindrical Cathode, by S. Sawada, et al.
JAPANESE, per, Denki Kagaku Vol XXXI,
1963, pp 776-781.
Chem Trans Sv No 2563

Recent Progresses Made in the Liquid-Phase
Air Oxidation of Hydrocarbons, by Y. Kamiya.
JAPANESE, per, Journal Japn Petroleum Inst.,
Vol IX, No 2, 1966, pp 105-110.
Chem Trans Sv No 2546

Study of Thermal Decomposition of Porous
Material, by S. Sugiyama and H. Hasatani,
JAPANESE, per, Kagaku Kagaku, Vol XXIX,
No 3, 1965, pp 158-165.
NLL 9022.091 (CRL/T 2513)

Studies on Concentrated Solutions of Acryloni-
trile Copolymers. II. Elastic Behavior of
Network Structure in Concentrated Solution,
by T. Hayahara, S. Takao.
JAPANESE, per, Kobunshi Kagaku, Vol 23, 1966,
pp 181-186.
Chem Trans Sv 2631

Formation of Cl₂ by the Oxidation of NaCl,
Pyrite and SO₂, by K. Sugiyama, T. Takahashi.
JAPANESE, per, Kogyo Kagaku Zasshi,
Vol LXVI, No 12, 1963, pp 1773-1777.
Chem Trans Sv No 2564

Structure of Lactone Polymers. I. Molecular
Structures of Polypropiolactone, by
Go Wasai, et al,
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXVII,
No 4, 1964, pp 601-604.
*ACSI J-2107
ID 2204014067

Scientific
Chemistry (Contd)

Structure of Lactone Polymers. II. Molecular
Structure and Crystal Structures of Poly-
glycolide, by Koyu Hirono, et al,
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXVII,
No 4, 1964, pp 604-607.
*ACSI J-2108
ID 2204014167

Studies on Concentrating Salt Solutions by Ion-
Exchange Membranes. I. Conditions and Analysis
of Electroconcentration, by M. Tasaka and
I. Kagawa.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 68,
No 9, 1965, pp 1646-1651.
Chem Trans Sv 2252

Copolymerization of 4-Methylpentene-1 With
Hexene-1, by A. Yuji.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 68,
No 12, 1965, pp 2487-2490.
Chem Trans Sv 3103

Studies on the Electrolytic Manufacture
of Magnesium Bleaching Powder From
Bitterns Utilizing a Lead Peroxide
Electrode. (I) The Electrolysis of
Bittern Without the Addition of Alkali,
by A. Fukazawa.
JAPANESE, per, Tokyo Kogyo Shikensho
Hokoku, Vol LVII, No 3, 1962,
pp 111-118.
Chem Trans Sv No 3069

Isomerization and Decomposition of Ethylene
Oxide Using Silver Catalysts, by Y. Ide et al.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXXVI, No 12, 1965, pp 1249-1253.
Chem Trans Sv No 2543

Preparing of Aromatics From Petroleum
Hydrocarbons (3) Preparation of Cogelated
Chromia-Alumina Catalysts, by H. Yoshida, et al.
JAPANESE, per, Sekiyu Gakkai-Shi, Vol IX,
1966, pp 21-25.
Chem Trans Sv No 2581

Studies on the Electrolytic Manufacture
of Magnesium Bleaching Powder From
Bittern Utilizing Lead Peroxide Electrodes (III)
The Conditions for Manufacturing Magnesium
Bleaching Powder, by A. Fukazawa.
JAPANESE, per, Tokyo Kogyo Shikensho Hokoku,
Vol LVII, No 3, 1962, pp 129-136.
Chem Trans Sv No 3071

Scientific
Chemistry (Contd)

Deterioration Phenomena of Microphone Carbon Powder, by H. Hirabayashi, et al, JAPANESE, per, Tsuken Geppo, Vol V, No 2, 1952, pp 88-98.
NLL 9022.81 (2298)

Depolymerization and Oligomerization of Condensation Polymers, by E. Tuschida, T. Ohashi.
JAPANESE, per, Yuki Gosei Kagaku Kyokai Shi, Vol 24, No 2, 1966, pp 106-119.
Chem Trans Sv 2851

A Manufacturing Method for Polyesters, 8 pp. JAPANESE, Patent 8474/66, 2 May 1966.
Teijin Corp.
Chem Trans Sv 3020

Apparatus for Remote Measurement of the Specific Gravity of Sulfuric Acid, JAPANESE, Patent 12,037-65, June 14, 1965, 3p.
Chem Trans Sv No 2714

An Electrolytic Cell For the Manufacture of Fluorine.
JAPANESE, Patent 20,246/65, Sept 9, 1965, 10 p.
Chem Trans Sv No 2718

Vertical Type Mercury Electrolysis Cell with a Diaphragm.
JAPANESE, Patent No 34-2275, 9 Apr 1959, 6 p.
Shoen Boseki Co.
Chem Trans Sv 2446

Manufacturing Method for Modified Polyesters.
JAPANESE, Patent, 38-10,049, 22 Jun 1963,
Teijin Corp.
Chem Trans Sv 2639

Apparatus for Remotely Measuring the Specific Gravity of Sulfuric Acid.
JAPANESE, Patent 40,12038, June 14, 1965, 3p.
Chem Trans Sv No 2715

Method for Oxychlorination of Hydrocarbons,
JAPANESE, Patent 40-12602, June 21, 1965. 5p.
Chem Trans Sv No 2416

Method for the Manufacture of Chlorine,
JAPANESE, Patent 40-14,287, July 8, 1965.
10 p.
Chem Trans Sv No 2421

Scientific
Chemistry (Contd)

A Device to cut off the Flow of Mercury and (Or) Amalgam in Electrolytic Cells,
JAPANESE, Patent, 40-14,414, July 9, 1965
17 p.
Chem Trans Sv No 2422

Multi-Tube Type, Refining Apparatus for Hydrogen Employing Thin Pd Tubes,
JAPANESE, Patent 40-18609, Aug 21, 1966,
9p.
Chem Trans Sv No 2716

Manufacturing Method for Dense Soda Ash.
JAPANESE, Patent 40-21611, Dec 9, 1963.
14 p.
Chem Trans Sv No 2721

Method for Evaporation-Concentration of Brines by Means of Direct Contact with Solid Heating Media.
JAPANESE, Patent No 40-21029, 23 Sept. 1965, 9 p.
Director (of the) Academy of Industrial Technology.
Chem Trans Sv 2425

Method for Manufacturing Ammonia Gas and Gaseous Chlorine Using Ammonium Chloride as Raw Material.
JAPANESE, Patent 40-22171, Oct 1, 1965, 7p.
Chem Trans Sv No 2722

Method for Manufacturing the Inorganic Salt of an Alkali Metal and Chlorine Gas Simultaneously,
JAPANESE, Patent, 40-24021, Aug 6, 1962, 10p.
Chem Trans Sv No 2724

Preparation of Nitrate Oil Explosives Using Ultrasonics.
JAPANESE, Patent No 41-237, 11 Jan 1966, 3 p.
Chugoku Kayaku
Chem Trans Sv 2467

Process for the Purification of Terephthalic Acid.
NETHERLANDS, Patent No 65-05950, 15 Nov 1965, 5 p.
Institut Francais du Pétrole, des Carburants et Lubrifiants.
Chem Trans Sv 2849

Process for Preparation of Resins, 7 pp.
NETHERLANDS, Patent Appl. 65-06182, 15 Nov 1965. Iavter Chemicals, Inc.
Chem Trans Sv 2963

Scientific
Chemistry (Contd)

Process for Detection of Chemical Materials in Liquids, Especially for Medical Diagnoses, and Process for Preparation of a Composition to be Used as Reagent in Addition.
NETHERLANDS, Patent No Appl. 65-07633, 16 Dec 1965, 18 p.
Miles Laboratories, Ltd.
Chem Trans Sv 3077

Process for the Preparation of Chlorinated Hydrocarbons.
NETHERLANDS, Patent No 65-13830, 28 Apr 1966, 9 p.
Imperial Chemical Ind., Ltd.
Chem Trans Sv 3000

Process for Separation of m-Xylene from a Hydrocarbon Mixture, That Contains at Least One Other Xylene Isomer in Addition to at Least 20 Vol-% m-Xylene.
NETHERLANDS, Patent No 247,656, 15 June 1966, 10 p.
California Research Corp.
Chem Trans Sv 3068

Application of Inclusion Complexes in Polymer Chemistry, Part II, by J. F. Rabek,
POLISH, per, Polimery Tworzywa Wielkocząsteczkowe, No 1, 1966, pp 1-5.
ACSI J-1587
ID 2204001567

Studies of the Solubility of Sodium Carbonate, Sodium Sulfate and Sodium Chloride in Sodium Hydroxide Solutions. Part II. Solubility Isotherms of Quaternary Systems at 30° Temperature, by Z. Szufarski, E. Fischinger.
POLISH, per, Przemysł Chem, Vol 45, No 1, 1966, pp 20-22.
Chem Trans Sv 3043

Possibility of Lowering the NaCl Concentration in the Soda Process, by H. Koneczny
POLISH, per, Przemysł Chem, Vol XLV, No 2, 1966, pp 72-74.
Chem Trans Sv No 2922

Possibility of Enrichment of Polish Kieserite Carnallite (From Kłodawa) III. Flotation, by S. Gustkowicz.
POLISH, per, Przemysł Chem, Vol XLV, No 2, 1966, pp 76-84.
Chem Trans Sv No 2924

Scientific
Chemistry (Contd)

Hydrogen Chloride and Sodium Chloride Electrolysis on Pilot Plant Scale Using a Powder Cathode, by W. Tomassi, et al.
POLISH, per, Przemysł Chem, Vol XLV, No 3, 1966, pp 131-134.
Chem Trans Sv No 3042

Synthesis of Alkylaluminum Compounds at Pressures Below 15 Atmospheres, by M. Jarzyńska.
POLISH, per, Przemysł Chem, Vol 45, No 3, 1966, pp 142-145.
Chem Trans Sv 3066

Coupling of Electrolytic Processes Through a Bilateral Powder Electrode. VI. The Effect of Active Charcoal Properties on the Performance of the Electrode, by W. Tomassi, A. Gierak.
POLISH, per, Przemysł Chem, Vol 45, No 4, 1966, pp 183-186.
Chem Trans Sv 3044

Conductivity of Aqueous Solutions of Sodium Hydroxide and Sodium Carbonate, by J. J. Norta dos Santos, et al.
PORTUGUESE, per, Tecnica, Vol XXXVIII, No 337, 1964, pp 439-451.
Chem Trans Sv No 3047

Sulfochlorination of Copper Phthalocyanine, by F. Brodman, et al.
RUMANIAN, per, Rev Chim, Vol XVII, No 2, 1966, pp 74-77.
Chem Trans Sv No 2983

Asbestos, Paradoxical Mineral, by S. la Concha.
SPANISH, per, Bol Inst Geol Minero Espana, Vol LXXV, 1964, pp 63-110.
Chem Trans Sv No 2837

A Method of Producing Ammonia,
SPANISH, Patent, 260,734, Aug 31, 1960, 15p.
Chem Trans Sv No 3152

Scientific
Earth Science & Oceanography

On the Age and Division of the Simbirskitid Beds and the Belemnitid Series of the Volga Region, by E. S. Chernova,
RUSSIAN, per, Byull. Mosk. Obshch. Ispyt. Prir. Itdel. Geolog., Vol VI, No 6, 1951, pp 46-81.

NLL RTS 3310
(On Loan or Purchase)

Mean Free Air Anomalies: Sources of Information on Heterogeneities in the Earth's Mantle, by M. Ye. Artem'yev.
RUSSIAN, per, Byulleten' Moskovskogo Obshchestva Ispytateley Prirody - Otdel Geologicheskii, Vol XL, No 5, 1965, pp 93-105.

*ACIC-TC-1216

The Effect of Geological Age and Depth of Occurrence on the Reservoir Properties of Sands, by V. L. Komarov and D. V. Postnikov,
RUSSIAN, per, Dok Ak nauk SSSR, Vol CLIX, No 1, 1964, pp 106-108.

ATS RJ-4517

Compilation of the Prediction Map for the Ancient Coastal Titanium and Zirconium Placers of Timan, by A. R. Sushon,
RUSSIAN, per, Geologiya Rudnykh Mestorozhdeniy, Vol V, No 2, 1963, pp 76-90.

NLL RTS 2765 (On Loan or Purchase)

Influence of the Earth's Magnetic Field on a Backscattered Signal, by Yu. A. Chernov, 13 pp.
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol. VI, No 5, 1966, pp. 881-888.

JPRS 40256

Evaporation in Nature, by A. R. Konstantinov,
RUSSIAN, bk, Isparenie v Prirode, 1963, pp 1-522.

CFSTI TT 66-51015

Investigation of Methods of Scale Prevention in Sea Water Evaporators, by I. E. Apel'tsin, 18 pp.
RUSSIAN, per, Issledovanie Metodov Predotvrashcheniya Nakipeobrazovaniya v Ispartelyakh Morskoi Vody, 1966.

*AEC

Scientific
Earth Science & Oceanography (Contd)

Investigation of the Prevention of Calcium Sulphate Scale Formation by Means of Seeding, by E. P. Novikov, et al.
RUSSIAN, rpt, Issledovanie Predotvrashcheniya Nakipi Sul'fata Kal'tsiya s Pomoshchyu Zatravki, Moscow 1966, 5 p.

*AEC

Selected Works of V. V. Dokuchayev, Vol I, 419 pp.
RUSSIAN, bk, Izbrannye Sochineniya, 1948.

CFSTI TT 66-51133

Russian Steppes in the Past and in the Present, by V. V. Dokuchayev, 67 pp.
RUSSIAN, per, Izbrannyye Sochineniya, Vol II, 1949, pp 163-228.

CFSTI TT 66-51118

Variability of the Astroclimate, by G. I. Bol'shakova, Sh. P. Darchiya, 14 pp.
RUSSIAN, per, Iz Astronomicheskaya Observatoriya Pulkovo, Vol XXIII, No 5, 1964, pp 155-161. P100064467-V

FTD HT 66-184

Acoustics of the Ocean, by I. Ye. Mikhail'tsev, 31 pp.
RUSSIAN, per, Izvestiya AN SSSR, Fizika Atmosfery i Okeana, Vol III, No. 1, pp. 78-100.

JPRS 40314

Experimental Investigation of the Flow of Quicksand in a Formation, by O. F. Vasil'ev, et al,
RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i Mashinostr., No 2, 1964, pp 179-182.

ATS RJ-4490

The Process of Decomposition of Macrophytes of Freshwater Lakes and the Role of Their Residues in the Formation of Lacustrine Ooze Deposits, by M. A. Messineva and A. I. Gorbunova,
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Otdel. Biol. Nauk, Vol V, 1946, pp 565-579.

NLL RTS 3330

(On Loan or Purchase)

Scientific
Earth Science & Oceanography (Contd)

The Main Features of the Tectonic Development of Africa in the Precambrian, by S. E. Kolotukhina, RUSSIAN, per Izvestiya Ak Nauk SSSR, Seriya Geologicheskaya, Vol IV, No 4, 1964. pp 20-37.
NLL RTS 2724 (On Loan or Purchase)

Molniya-I Transmits Images of the Earth from Space, by S. I. Burtsev, et al, 7 pp. RUSSIAN, per, Meteorologiya i Gidrologiya No. 12, Dec 1966, pp. 3-9.
JPRS 40218

Clear Air Turbulence, by I. G. Pchelko, 10 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 10-18.
JPRS 40218

A Method of Solution of the Complete Equations of Short-Term Weather Forecasting and the Problem of Linear Adaptation of Pressure and Wind Fields, by D. Ya. Pressman, 9 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 19-26.
JPRS 40218

The Cause of the Difference between the Temperature Gradient and the Adiabatic Gradient, by O. A. Drozdov, 5 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 27-30.
JPRS 40218

The Dynamics of Long Waves and Long-Range Weather Forecasting, by B. R. Ur'yeva, 10 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 30-36.
JPRS 40218

Medium-Range Temperature Forecasting for Mountainous Countries Based on the Example of Western Georgia, by D. A. Mdivaradze, 7 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 36-40.
JPRS 40218

Procedure for Estimating the Effect of a Ground Crust of Ice on Wintering of Wheat, by V. M. Lichikaki, 4 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 40-41.
JPRS 40218

Scientific
Earth Science & Oceanography (Contd)

Advance Calculation of the Spring Flood Hydrograph for Stagnant Rivers in the Southern Part of the Forest Area of the Western Siberian Lowland, by D. A. Burakov, 8 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 42-46.
JPRS 40218

Hydraulic Calculation of the Flow of Water under Ice, by V. I. Sinotin and Z. A. Genkin, 3 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 46-48.
JPRS 40218

The Use of Aerial Photographs for Investigation of Convective Clouds, by G. F. Prikhot'ko, 2 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 53-54.
JPRS 40218

Book Review: Principles of the Synoptic Method of Seasonal Weather Forecasts by S. T. Pagava, et al, 4 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 55-57
JPRS 40218

Book Review: Transparency of the Atmosphere to Visible and Infrared Rays, by V. Ye. Zuyev, 10 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 58-62.
JPRS 40218

Index of Articles Published in the Journal Meteorologiya i Gidrologiya (Meteorology and Hydrology) in 1966, 11 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No. 12, Dec 1966, pp. 63-67.
JPRS 40218

Certain Regularities in Salt Deposits When Boiling on Highly Accelerated Heating Surfaces, by E. I. Nevstrueva, I. M. R. Romanovskii. RUSSIAN, rpt, Nekotorye Zakonomernosti Otlozheniya Soli Pri Kipenii Na Vysokoforsirovannykh Poverkhnostyakh Nagreva, Moscow 1966, 11p.
*AEC

Scientific
Earth Science & Oceanography (Contd)

On the Possibility of Determination of Some Vertical Temperature Profile Parameters in the Upper Layer of the Ocean, by B. N. Filyushkin, RUSSIAN, per, Okeanologiya, Vol V, No 6, 1965, pp 940-946.
NLL 6113.199B (97)

New Data on the Bottom Topography of the Indian Ocean, by G. B. Udintsev, RUSSIAN, per, Okeanologiya, Vol V, No 6, 1965, pp 993-998.
NLL 6113.199B (95)

Acoustic Properties of Sound-Scattering Layers in the Ocean, and Data from Echo-Sounding and Direct Catching Observations, by I. B. Andreyeva, RUSSIAN, per, Okeanologiya, Vol V, No 6, 1965, pp 1028-1037.
NLL 6113.199B (96)

The Sound-Scattering Layers as Indicators of the Ocean's Internal Waves, by Yu. G. Chindonova, RUSSIAN, per, Okeanologiya, Vol V, No 6, 1965, pp 1038-1042.
NLL 6113.199B (94)

Quantitative Distribution and Seasonal Dynamics of Zooplankton in the Newfoundland Area, by E. V. Vladimirskaia, 9 pp.
RUSSIAN, per, Okeanologicheskie Issledovaniya, No 13, 1965, pp 137-142.
CFSTI TT-66-61247

Desalting of Caspian Sea Water in an Electrodialysis Plant with a Capacity of 100 Cu. M./25 Hours, by B. N. Laskorin, et al, RUSSIAN, rpt, Opresnenie Vody Kaspiiskogo Morya Na Elektrodinamicheskoi Ustanovke Proizvoditel'nost'yu 100 M³/SUt, Moscow, 1966, 11 pp.
*AEC

What Will Happen to Our Inland Seas; by V. N. Kunin, 15 pp.
RUSSIAN, per, Priroda, No. 1, Jan 1967, pp. 36-46.
JPRS 40382

Scientific
Earth Science & Oceanography (Contd)

Problems in Wave Diffraction and Propagation Series V. Radio Wave Propagation IV, by N.N. Vasil'yeva (ed), RUSSIAN, bk, Problemy Difraktsiy i Rasprostraneniya Voln. V. Rasprostraneniye Radiovoln, No IV, 1966, pp 4-183.
*JPRS/SF-4648

On the Introduction of the Terrain Correction in Gravimeter Observations, by V. B. Naugol'nikov, RUSSIAN, per, Razvedochnaya Geofizika, No 8, 1965, pp 99-103.
*ACIC TC-1219

Results of Gravimetric Surveys and Problems of Direct Search for Oil and Gas on the Monzhukla Structure, by B. I. Kireyev, RUSSIAN, per, Razvedochnaya Geofizika, No 8, 1965, pp 104-108.
*ACIC TC 1217

A Gravity Clinometer, by N. I. Kuserbayev, RUSSIAN, per, Razvedochnaya Geofizika, No 8, 1965, pp 114-118.
*ACIC TC-1218

VIII. Alluvial and Seacoast, Swampy and Saline Soils, by V. M. Fridland, 26 pp.
RUSSIAN, rpt, Soils and Crusts of Weathering in Humid Tropics, 1964.
DIA LN 56-67

VII. Ferrolite-Margalite Soils, by V. M. Fridland, 22 pp.
RUSSIAN, rpt, Soils and Crusts of Weathering in Humid Tropics, 1964, pp 161-194.
DIA LN 56-67

Tectonics of the Pamirs and Tien Shan, by A. V. Peive, I. Ye. Gubin, et al, RUSSIAN, bk, Tektonika Pamira i Tyan'-Shanya, 1964, 217 pp.
ACIC TC-1090

Thermo-Chemical Method of Softening and Desalting Caspian Sea Water and the Industrial Thermo-Chemical Desalination Plant in Baku, by I. Z. Mekinskiy, 14 pp.
RUSSIAN, rpt, Termokhimicheskii Metod Umyagcheniya i Opresneniya Vody Kaspiiskogo Morya i Promyshlennaya Termokhimicheskaya Opresnitel'naya Ustanovka V. G. Baku, 1966.
*AEC

Scientific
Earth Science & Oceanography (Contd)

Numerical Interpretation of Cloud
Information From Meteorological Satellites,
by Sh. A. Musaelian, A. Z. Chekirda,
16 pp.
RUSSIAN, per, Trudy Leningrad Glavnaia .
Geofiz Obser, No 166, 1964, pp 189-202.
PI00047467
AFCRL T-R-468

Some Species of Coelenterata of the Devonian
of the Central and Eastern Regions of the
Russian Platform, by K. A. Ermakova,
RUSSIAN, per, Tr. Vses. Nauchno-Issled.
Geologorazvedochnogo Neft. Inst., Vol
XVI, 1960, pp 69-106.
NLL RTS 3165
(On Loan or Purchase)

Brief Characteristics of the Water Masses in
the Gulf of Aden and the Northern Arabian
Sea, by M. S. Edelman,
RUSSIAN, per, Trudy Vses. n-i Inst. Mossk.
Ryb Kh-va i Okean, Vol LVII, 1965, pp 93-107.
NLL 6113.199 (109)

Instruments and Methods for Meteorological
Observations,
RUSSIAN, per, Trudy Vsesoyuznogo Nauchnogo
Meteorologicheskogo Soveshchaniya, Vol IX,
1963, 423 pp.
CFSTI TT 65-50004

Clear Air Turbulence in Jet Streams, by
A. A. Reshchikova, 20 pp.
RUSSIAN, per, Tsentral'naya Aerolog Obser.
No 54, 1964.
Dept of Navy Tr 5202/QNI Tr 2314

Universal Decimal Classification,
RUSSIAN, bk, Universal'naya Desyatichnaya
Klassifikatsiya Otrazleye Tablitsy po
Geologii, Geodezii, Kartografii i Smezhnym
Otrazlyam Nauki i Tekhniki, 1966, 218 pp.
*CFSTI TT 67-51411

Device for Measuring Gravitational Fields,
by I. A. Maysob,
RUSSIAN, per, Patent No 170697,
20 Apr 1964.
*FTD-INT-23-598-67

Scientific
Earth Science & Oceanography (Contd)

A Study of the Mean Interdiurnal Pressure
and Temperature Variability at the Surface
and of the Mean Interdiurnal Altitude
and Temperature Variability at the 300,
500 and 700-MB Levels Over China, by
Yang Chien-chu, 31 pp.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao,
Vol XXIX, No 3, 1958, pp 201-212. P922094367
AFCRL Emm-65-30

The Characteristics of Low-Latitude Flow
Patterns Over Southeast Asia and Western
Pacific From October to December, by
Hsieh Yi-Ping, 11 pp.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao,
Vol XXXV, No 3, 1965, pp 338-342. P922095067
AFCRL Emm-66-88

The Vegetation of Central Tibet, 101 pp.
CHINESE, per, Hsi-Tsang Chung-pu Ti Chih-pei,
June 1966, pp. 1-71.
JPRS 40199

A Study of Certain Problems Relating to
Subtropical Synoptic Systems in China
During Summer, by Dao Shih-yen, 11 pp.
CHINESE, per, Institute of Geophysics and
Meteorology, Academia Sinica, 1965,
146 pp. P922094167
AFCRL Emm-66-103(a)

On the Evaluation of Total Radiation by
Climatological Methods, by Weng Tu-Ming,
25 pp.
CHINESE, rpt, 1964. P922095267
AFCRL Emm-66-82

Principles of Oceanography, by
Jing Zhen-hua, 11 pp.
CHINESE, per, The Science Press, 1966,
465 pp. P922094267
AFCRL Emm-66-144(a)

Studies on the Management of Sand
Resources. (II) Natural Environment.
CHINESE, per, The Working Group on the
Management of Sand Resources of Academia
Sinica, No 4, 1962, 278 pp. P922094467
AFCRL Emm-66-146(a)

Selections from: Bulletin of the French Carto-
graphy Committee.
FRENCH, rpt, Bulletin du Comite Francais de Carto-
graphie, Fascicle No 29, Bulletin No. 3/1966,
Aug/ Sept 1966, pp 106-112.
ACIC TC-1166

Scientific
Earth Science & Oceanography (Contd)

Consideration of Some Boundary Value Problems in Connection With Satellite Orbit Perturbations Due to Irregularities of Topographic Masses, by E. Groten. 97 pp.
GERMAN, rpt, Deutsche Geodatische Kommission bei der Bayerischen Akademie der Wissenschaften, Series A, No 48, 1966.
*ACIC TC-1204

Absorption of Fission Products by Marine Organisms, by L. Argiero and S. Manfredini, FRENCH, per, Health Physics, Vol XII, 1966, pp 1259-1265. P911107467
AEC-SC-T-67-0903

The Terrestrial Radiation Canon and its Application to the Glacial Period Problem, Part I and II, by M. Milankovitch, GERMAN, bk, Kanon der Erdbestrahlung und Seine Anwendung auf das Eiszeitenproblem, Teil 1 und Teil 2, 1941, Part I - 344 pp. Part II - 303 pp.
*CFSTI TT 67-51410/1 and 2

Mineral Components of Pallasites and Mesosiderites and Some Genetic Considerations, by P. Ramdohr. GERMAN, per, Monatsber. Deut. Akad. Wiss. Berlin, Vol 7, No 12, 1965, pp 923-938.
*AEC

International Geodetic Conference in Budepest Electrical Distance Measurement, by Rudolf Schmidt, GERMAN, per, Vermessungstechnische Rundschau, No 9, 1966, pp 326-329.
*ACSI J-2021
ID 2204012167

Contribution to Determining the Vertical Gradient of Gravity With a Static Gravimeter, by Marius Visarion. ITALIAN, per Studii si Cercetari de Geologie. Academia Republicii Populare Romine, Vol 5, 1960, pp 383-398.
*ACIC TC-1188

Maps of the Districts, Published in 1959-1963 and Revised by PPWK Up to 1966, by Stanislaw Pietkiewicz. POLISH, per, Biuletyn Instytutu Geodezji i Kartografii, No 3, 1966, pp 279-280.
ACIC TC-1179

Scientific
Earth Science & Oceanography (Contd)

On the Problem of the Uniform Reference Level for the Compilation of the Magnetic Map of Southeastern Europe, by Andrej Uhrynowski. POLISH, per, Biuletyn Instytutu Geodezji i Kartografii, Vol XVI, No 4, 1966, pp 295-296.
ACIC TC-1181

Atmospheric Circulation as a Factor in Spatial Differentiation of Climatic Conditions in Poland, by Jerzy Kuźmiński, 10 pp. POLISH, per, Przegląd Geofizyczny, Vol VII, No 1, 1962, pp 23-36.
CFSTI TT 65-50394

Frequency of Occurrence of Particular Cloud Genera Over Poland, by Wojciech Warakowski, 5 pp. POLISH, per, Przegląd Geofizyczny, Vol VII, No 3, 1962, pp 185-192.
CFSTI TT 65-50397

Determination of Water Content in Snow, by Janina Lewńska, 7 pp. POLISH, per, Przegląd Geofizyczny, Vol VII, No 4, 1962, pp 245-254.
CFSTI TT 65-50500

Meteorology and Transport (On the Occasion of the World Meteorological Day 1963), by Ananiasz Rojecki, 9 pp. POLISH, per, Przegląd Geofizyczny, Vol VIII, No 1-2, 1963, p 1-9.
CFSTI TT 65-50388

Influence of Meteorological Conditions on the Concentration of Radioactive Aerosol in Ground-Air Layers, by Teodor Kopcewicz, 17 pp. POLISH, per, Przegląd Geofizyczny, Vol IX, No 1, 1964, pp 3-24.
CFSTI TT 65-50381

Review of Polish Pleistocene and Holocene Farms Containing Peat Bogs, by Tadeusz Churski, 11 pp. POLISH, per, Wiadomości Instytutu Melioracji i Użytków Zielonych, Vol IV, No 2, 1964, pp 71-90.
CFSTI TT 66-57036

Aspects of Brazilian Hydrography, by Ruth Simões Bezerra Dos Santos, 30 pp. PORTUGUESE, per, Revista Brasileira de Geografia, Vol XXIV, No 3, Sept 1962, pp 3-31.
DIA LN 146-67D

Scientific
Electronics & Electrical Engineering

Some Voltage-To-Digital Conversion Circuits,
by N. I. Kalatozishvili.
RUSSIAN, per, Ak Nauk GruzSSR Inst
Elektron, Avtomatiki i Telemekh., 1965,
pp 64-69.
*FTD-HT-23-585-67

Electrical Control of an Antenna Array Beam,
by V. M. Mamayev,
RUSSIAN, per, Byulleten Izobreteniy i Tovarn-
ykh Znakov, No 10, 1965, pp 1.
ACSI J-1833
ID 2204009767

Asynchronous Running of Synchronous Genera-
tors, by L. G. Mamikonyants and
I. A. Syromyatnikov,
RUSSIAN, per, Elektricheskie Stantsiy, Vol
XXXI, No 7, 1960, pp 42-46.
NLL RTS 2857 (On Loan or Purchase)

Ground Fault Protection of the Rotor in
a Generator with Valve Excitation, by
G. B. Chernikov,
RUSSIAN, per, Elektrichestvo, No 5, 1965,
pp 38-44.
NLL 9022.03 1965 (3809)

Electrostatic Channel With Periodic Focusing, by
A. A. Glazov, et al. 13 pp.
RUSSIAN, rpt, Elektrostaticheskii Trakt s Periodi-
cheskoi Fokussirovkoj, Nov 15, 1966.
*AEC

The Performance of the Brush Contact of
Electrical Machines at Increased Density,
by A. Ya. Gluskin, et al,
RUSSIAN, per, Elektrotehnika, Vol IX,
1963, pp 20-25.
NLL RTS 2739 (On Loan or Purchase)

D. C. Electric Motors with a Smooth Arma-
ture, by O. P. Sidorov,
RUSSIAN, per, Elektrotehnika, No 10, 1965,
pp 1103-1113.
NLL 3774.5 (1486)

The Erosion of Precious Metal Electrodes in
Arc Discharge, by A. D. Gut'ko,
RUSSIAN, per, Elektr. Kontakty Tr. Soveshch.,
1964, pp 53-73.
NLL 5828.4 1965 (5846)

Scientific
Electronics & Electrical Engineering (Contd)

The Operation of Pin Plugs at Microcurrents
and Microvoltages, by A. I. Fedorov, et al,
RUSSIAN, per, Elektr. Kontakty Tr.
Soveshch., 1964, pp 250-265.
NLL 5828.4 1965 (5849)

The Electrodeposits on Contact Systems of
Switching Apparatus, by S. Y. Grilikhes
and D. S. Isakova,
RUSSIAN, per, Elektr. Kontakty Tr. Soveshch.,
1964, pp 376-394.
NLL 5828.4 1965 (5850)

Electro-Technical Materials, Electrical Cap-
acitors, Wires and Cables 1962-1963,
RUSSIAN, rpt, Elektrotekhnicheskiye Materialy.
Elektricheskiye Kondensatory, Provoda i
Kabeli 1962-1963, Itogi Nauki i Tekhniki,
Akad Nauk SSSR Institut Nauchnoy Informatsiy,
1964, 157 pp.
ACSI J-0859
ID 2204049466

Electrical Equipment of Electrical (Stations)
And Transformer Substations, by
M. I. Slavnin, 42 pp.
RUSSIAN, rpt, Gosudarstvennoe Energeticheskoye
Izdatelst'vo, 1963, pp 5-8; 448-474.
DIA LN 98-67

Feasibility of Constricting Lines of Magnetic
Resonance in a Helium Magnetometer, by
B. F. Amirkhanov, V. M. Ryzhkov,
RUSSIAN, per, Gosudarstvennyy Geologicheskii
Komitet SSSR Osobyye Konstruktoroye Byuro
Apparatura, No 26, 1965.
*ACSI J-2302
ID 220401767

Cross-Section for Annihilation of Polarized
Electron-Position Pairs, by V. N. Bayer and
V. A. Khoze,
RUSSIAN, rpt, Institut Yadernoi Fiziki Sibir-
skogo Otdeleniya AN SSSR, 1966.
*AEC-SLAC-Trans

To Define the Boundaries of Individual
Application of Exponential and Normal
Laws of Time Distribution in Failures
of Elements of Radio Electronic Equipment,
by O. Ya. Gel'man, 5 pp.
RUSSIAN, per, Iz Ak Nauk LatSSR, Ser
Fiz i Tekh Nauk, No 4, 1964, pp 119-123.
PI00090867
FTD-HT-66-524

Scientific
Electronics & Electrical Engineering (Contd)

Automatic Detection of Failures in Electronic Computers, by L. A. Korytnaya. RUSSIAN, bk, Kiberneticheskaya Tekhnika, 1965, pp 90-101.
*FTD-MT-23-599-67

Automation and Computer Engineering, by V. V. Nalimov. RUSSIAN, bk, Kibernetika i Dokumentalistika, Mekhanizatsiya Protsessa Nakopleniya, Khraneniya i Polska Nauchnoy Informatsii, 1966, 176 pp.
*FTD-MT-23-659-67

On Nondestructive Readout From Ferrite Memory Elements by Transverse Fields, by V. I. Demidenko, A. Ye. Oboronko, 17 pp. RUSSIAN, rpt, Kibernetika i Elektronno-Vychislitel'naya Tekhnika, Nauchno-Tekhnicheskoy Konferentsii, Leningrad, Leningrad, 1962, pp 65-78. P100069767
FTD TT 65-853

Electronic Computers at the Enterprises of Estonia, by Kh. Myand, 9 pp. RUSSIAN, per, Kommunist Estonii, No. 12, Dec 1966, pp. 29-35.
JPRS 40206

Regenerative Semiconductor Parametric Amplifiers Some Problems of Theory and Design, by V. N. Vasil'yev. RUSSIAN, rpt, Nekotoryye Voprosy Teorii i Rascheta, 1965, 447 pp.
*FTD-MT-24-114-67

Emission of a Bremsstrahlung Photon During High-Energy Electron-Electron Collisions, by V. N. Bair, et al, RUSSIAN, rpt, O Tormaznom Izlucheniye Fotona pri Stoknoventiy Elektronov Bol'shioy Energii, 1966, 14 pp. P911107167
AEC-SLAC-Trans-56

Relationship Between Microhardness and Microbrittleness and Electron Structure in Refractory Compounds, by G. V. Samsonov, RUSSIAN, per, Poroshkovaya Metallurgiya, Vol VI, 1966, pp 95-99.
*NASA TT F-10,935

Time-Digital Code Converter for Nanosecond Range, by A. A. Ivanov, RUSSIAN, per, Pribory i Tekhnika Eksperimenta, No 1, 1966, pp 11-114.
*ACST J-2325
ID 2204017567

Scientific
Electronics & Electrical Engineering (Contd)

Electronic Methods of Controlling the Quality of Spatial Structures in Prefabricated Reinforced Concrete, by N. A. Krylov and G. I. Sakhno, RUSSIAN, per, Prostranstvennyye Konstruktsiy v SSR, 1964, pp 60-73.
NLL RTS 3411
(On Loan or Purchase)

Technology of Large Electric Machine Building, by M. I. Zundeleovich and S. A. Prutkovskiy, RUSSIAN, bk, Tekhnologiya Krupnogo Elektromashinostroeniya, Part II, 1966 321 pp.
*CFSTI TT 67-59006

Basis and Development of Methods for Testing the Insulation of Electro-magnetic Contactors at a Rated Load of Up to 660V Under very Humid Conditions, by Yu. P. Antonov and V. A. Kral'ko, RUSSIAN, per, Trudy MakNII, Vol XVI, 1965, pp 54-61.
NLL 8313.4 (5314)

Principles of Design and Application of Computers Operating on Increments, by F. V. Mayorov, 13 pp. RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Serial Digital Differential Analyzers with a Mnemonic Circuit for Problem Setups, by A. A. Gurakov and A. G. Shevelov, 16 pp. RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

A Voltage to Code and Code to Voltage Electronic Converter for BESM-2 High-Speed Computers, by K. P. Zhukauskas and I. Yu. Petkyavichus 13 pp. RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V.
FTD-MT-64-344

Scientific
Electronics & Electrical Engineering (Contd)

Transistorized Multichannel Converter of Voltage into Digital Code and of Digital Code to Voltage by R. Kh. Babich and V. V. Lunin, 17 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Transistor Digital-Analog Converter, by T. M. Aleksandridi and Ye. A. Fateyev, 16 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Peculiarities in Constructing Operational Amplifiers in High-Speed Analog Computers, by D. Ye. Polonnikov, 14 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

7.3.1400 Mw Condensation Electric Power Plant Containing Units of the PVK-150+ 2X250 and PVK-200+640 Types and Burning Brown Coal.
RUSSIAN, rpt, Komponovki Teplovekhnicheskikh Stantsii 1961, pp 227-233.
DIA LN 141-67

Investigation of Synchronization of Two-Oscillators by Generalized Frequency-Phase Diagram, by I. A. Akalovskiy,
RUSSIAN, per, Radiotekhnika, Vol V, No 3, 1950, pp 15-23.
ACSI J-1793
ID 2204008767

Using Lasers for Studying the Kinetics of Photoelectric Field Emission, by A. F. Yatsenko.
RUSSIAN, bk, Respublikanskiy Seminar po Kvantovoy Elektronike. Kvantovaya Elektronika, 1966, pp 322-326.
*FTD-MT-23-614-67

Systems for Automatic Control of Velocity and Flow Fields, by G. P. Katys.
RUSSIAN, bk, Sistemy Avtomaticheskogo Kontrolya Poley Skorostey i Raskhodov, 1965, pp 1-464.
*FTD-MT-23-615-67

Scientific
Electronics & Electrical Engineering (Contd)

Use of Electrical Conductivity for Measuring Discharges by the Dilution Method, by G. M. Rimmar,
RUSSIAN, per, Trudy Gos. Gid. Inst., Vol XXXVI, No 90, 1952, pp 18-48.
NLL 6075.461 1965 (749)

Decoding Method for Cyclic Codes That Correct Multiple Error Bursts, by R. P. Megrelishvili.
RUSSIAN, per, Trudy Nauchno-Tekh Konferentsiya po Sredstvam Promyshlennoy Telemekhaniki, 1966, pp 16-164.
*FTD-MT-23-569-67

On Using an Averaged Estimate in Searching a Minimization Method in the MN-11 Analog Computer, by I. M. Vitenberg and Ye. A. Yerokhin, 24 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Radar in Meteorology, by V. D. Stepanenko, 173 pp.
RUSSIAN, bk, Radiolokatsiya v Meteorologii, 1966, pp. 107-150; 189-239; 254-276; 288-305; 308-327.
JPRS 40459

On the Use of Digital Methods in Systems of Control; Data Input and Output of Analog Computers (AC), by G. M. Petrov, 18 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

On Principles of Constructing Hybrid Computers, by B. Ya. Kogan, 24 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Scientific
Electronics & Electrical Engineering (Contd)

On Methods of Increasing the High Speed Operation and Expanding the Logical Possibilities of Digital Differential Analyzers (DDA), by A. V. Kalyayev, 13 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

On Designing Resistance Ladder Networks for a "Code Voltage" Converter, by K. A. Netrebenko, 6 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

On the Design Structures of Specialized Digital Computers, by G. M. Kozyreva and A. V. Shileyko, 24 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

On Computing Converter Errors of Voltage into Code and of Code into Voltage, by K. P. Zhukauskas, 6 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

On Certain Questions of Using Analog Computers in Optimum Control Systems, by F. B. Gul'ko, 10 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Memory Unit of a Digital Integrator, by R. I. Meleshkovich and G. I. Petrov 34 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Scientific
Electronics & Electrical Engineering (Contd)

On the Automatic Synthesis of Optimum Systems of Automatic Control, by A. A. Fel'dbaum, 26 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Integration Block of a Digital Integrating Machine, by D. V. Barun, E. M. Zelinskiy and V. I. Sergiyenko, 13 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Hybrid Computer for Statistical Data Processing, by A. F. Romanenko and G. A. Sergeyev, 12 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Digital Integrator with Ternary System for Encoding Increments, by A. A. Gurakov and A. G. Shevelev, 23 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Design of a Series-Parallel Digital Differential Analyzer, by A. V. Kalyayev.
RUSSIAN, per, Trudy Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962, pp 142-152.
*FTD-MT-66-136

Certain Questions on the Theory of the Accuracy of Converters, by B. G. Dostupov, 10 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vsesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-MT-64-344

Scientific
Electronics & Electrical Engineering (Contd)

Certain Questions in Constructing Serial Digital Differential Analyzers, by K. S. Neslukhovskiy, 18 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-HT-64-344

Certain Problems in Constructing Specialized Analog Computers (with the Use of Repetitive Operation and Consolidation of Equipment in Time), by I. M. Vitenberg, 44 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-HT-64-344

Principles in Constructing Multichannel Multipliers, by A. A. Petrenko, 16 pp.
RUSSIAN, per, Kombinirovannyye Vychislitel'nyye Mashiny, Trudy Vtory Vesoyuznoy Konferentsii-Seminara po Teorii i Metodam Matematicheskogo Modelirovaniya, 1962. P100053167-V
FTD-HT-64-344

Effect of the Thermal Treatment of Arsenic Selenides on Their Electrical Conductivity and Microhardness in the Glassy State, by R. L. Myuller, et al,
RUSSIAN, per, Vestnik Leningr. Univ. Ser. Fiz., No 22, 1964, pp 94-101.
ATS RJ-4670

22nd All Union Scientific Session Dedicated to Radio Day Television Section,
RUSSIAN, rpt, XXII Vesoyuznaya Nauchnaya Sessiya, Posvyaschenmaya Dnya Radio-Sektsiya Televideniya, 1966, pp 1-70.
*ACSI J-2120
ID 2204014967

Electrical Conductivity of Cadmium Oxide in High Frequency Electrical Fields, by R. A. Baltrushaytis.
RUSSIAN, per, Vilnius, Litovskiy Fiz Sbornik, No 4, 1964, pp 537-541.
*FTD-HT-23-657-67

Certain Results of Comparing OKG on a Ruby With Plane Parallel and Confocal Resonators, by N. A. Svetsitskaya, L. D. Khazov, 5 pp.
RUSSIAN, per, Zhur Prikl Spek, Vol IV, No 4, 1966, pp 345-347. P100089967
FTD-HT-66-523

Scientific
Electronics & Electrical Engineering (Contd)

Filament Image Transducer, by G. M. Malyshev.
RUSSIAN, per, Zhur Prikl Spektros, Vol V, No 3, 1966, pp 288-293.
*FTD-HT-23-625-67

Obtaining an Electric Conducting Layer on the Surface of Dielectrics, by B. P. Kryzhanovskiy.
RUSSIAN, per, Patent No 180670.
*FTD-HT-23-570-67

The "Sestrimo" Cascade Electric Power System, by Petur Durvarov and Nikola Panaytov, 14 pp.
BULGARIAN, per, Khidrotekhnika i melioratsii, No. 9, Nov 1966, pp. 262-267.
JPRS 40372

Certain Results of Research on Self-Optimizing Analog Computers, by Hu Dao-Yuen, Shen Ma-ming, 20 pp.
CHINESE, per, Ch'ing Hua Ta Hsueh Hsueh Pao, Vol XII, No 2, 1965, pp 23-36.
P100097067
FTD-HT-66-573

The Lock-In Range of an Automatic Phase Control System With a Non-Linear Reactance Valve Characteristic, by Chiang, Chun-chang.
CHINESE, per, Tien Tzu Hsueh Pao, No 3, 1965, pp 244-253.
*FTD-HT-23-619-67

A Study of Frequency Stabilization Systems Using a Pulsed Phase Analyzer, by Ch'uan, Ch'ang.
CHINESE, per, Wu Hsien Tien Chi Shu, Vol IX, 1965, pp 29-35.
*FTD-HT-23-605-67

Superconducting Electromagnet of Nb₃Sn, by Kuan Wei-yen, Liu Ti-han, 22 pp.
CHINESE, per, Wu Li Hsueh Pao, Vol XXI, No 7, 1965, pp 1345-1354. P100102367
FTD-HT-66-509

A Mathematical Model for Quick Evaluation of Regression Constants on a Digital Computer, by L. Kosecky, V. Kosecka.
CZECH, per, Chem Prumysl, Vol XVI, 1966, pp 234-236.
Chem Trans Sv No 3045

Transverse Cooling of the Pole Coils of Synchronous Machines, by J. Hlavac,
CZECH, per, Elektritechnicky Obzor, Vol LIII, No 7, 1965, pp 353-360.
NLL 3774.5B 1966 (1332)

Scientific
Electronics & Electrical Engineering (Contd)

Analysis of the Cooling of Enclosed Asynchronous Motors, by O. Oslejsek, CZECH, per, Elektrotechnický Obzor, Vol LIV, No 11, 1965, pp 527-537. NLL 3774.5 (1495)

Contribution to the Theory of Thermodynamic Simulation of Axial Compressors, by K. Celikovský. CZECH, per, Letnany. Vyzkumy a Zkusebni Letecky Ustav. Zpravodaj Vzlu, No 1, 1965, pp 3-12. *FTD-HT-23-636-67

Contribution to Pressure Loss Research in an Axial Compressor at Transonic Speeds, by Frantisek Klimes. CZECH, per, Letnany Vyzkumy a Zkusebni Letecky Ustav. Zpravodaj Vzlu, No 2, 1965, pp 19-24. *FTD-HT-23-635-67

Electromagnetic Field in Air-Gap of Finitely Long Machine with Solid Ferromagnetic Rotor, by J. Lasocinski, CZECH, per, Rozprawy Elektrotech., Vol XII, No 1, 1966, pp 69-92. NLL 3774.5 (1516)

Thermoelectricity, Its Opportunities, by Zdenek Poslt, CZECH, per, Sdelovaci Technika, No 12, 1966, 4 pp. ACSI J-2036 ID 2204013067

Niobe Computer Program Description and Use, by Gilles Brandicourt, Jacques Culambourg, 59 pp. FRENCH, Memorandum CEA-N 583 - Department of Reactor Research Radiation Shielding Section, Jan 1966. P911103567 AEC-ORNL-Tr-1378

Contributions to the Theoretical and Experimental Study of the Fluctuations Encountered in a Period Measuring Computer Programmed for Random Selection, by H. van der Beken and G. Bonnet, et al, FRENCH, per, Nuclear Instruments and Methods, Vol XLIII, 1966, pp 298-311. Dept of Navy/NRL Tr No 1089

Scientific
Electronics & Electrical Engineering (Contd)

Orientation Distribution of the Crystallites in Rolled 70-30 Brass Determined by Small-angle Electron Diffraction, by Frank Haessner and Dietmar Keil, GERMAN, bk, P911105667 AEC-ORNL-TR-1562

Electro- and Thermotransport in Iron, by H. Hering and H. Weber, GERMAN, per, Acta Metallurgica, Vol XV, 1967, pp 377-383. *AEC-ORNL-TR-1648

Fuel Cells as Long Term Energy Sources, GERMAN, rpt, Brown Boveri Infor Sheet 3123D, Nov 1965, 6 pp. *ACSI J-1780 ID 2204007667

Piezo-Electric Vibration Pick-up with Lead, Metaniobate, by L. Walther and G. Beister, GERMAN, per, Hochfrequenztechnik und Elektroakustik, No 5-6, 1965, pp 204-205. ACSI J-1837 ID 2204010067

Dynamics of Measurement and Theory of Information, by E. G. Woschni. GERMAN, per, Nachrichtentechnik, Vol XIII, No 10, 1963, pp 369-373. *FTD-HT-67-310

Quantitative Investigation of Current Strength, Duration and Routing in AC Electrocutation Accidents Involving Human Beings and Animals: Their Evaluation and Application to Power Installations, by P. Osypka, 56 pp. GERMAN, per, Technische Hochschule, Brunswick, Sec 4-5, 1963. CFSTI TT-114-70

Use and Mathematical Model of a Digital Computer for Automation of a Wide Strip Rolling Mill, by L. Pasolini. ITALIAN, per, Automazione e Automatismi, Vol 10, Sep-Oct 1966, pp 21-35. *BISI 5457

Electrical Conductivities of TCNQ Molecular Complexes of the Polymer-Containing Pyridine Rings, by H. Inoue. JAPANESE, per, Kogyo Kagaku Zasshi, Vol 69, 1966, pp 774-776. Chem Trans Sv 2800

Scientific
Electronics & Electrical Engineering (Contd)

A Method of Treatment for the Prevention of Electrification,
JAPANESE, Patent, 6616/60, June 7, 1960, 7 p.
Chem Trans Sv No 3006

Speed and Voltage Control of Electric Machines Using Silicon Controlled Rectifiers, by Wladyslaw Paszek.
POLISH, per, Przegląd Elektrotechniczny, No 8, 1965, pp 285-289.
*FTD-HT-67-329

Complete Logic Matrices and Their Use in Minimizing Boolean Expressions, by D. Damsker.
ROMANIAN, per, Automatica si Electronica, Vol X, No 3, 1966, pp 97-102.
*FTD-HT-23-646-67

Secondary Electrons Generator, by H. Sundberg.
5 PP.
SWEDISH, Patent, No 128,648.
Dept of Comm
Patent Office

An Algorithm for a Recognition System of Perception Type With Correlator at the Input, by V. I. Vasil'yev.
UKRAINIAN, per, Avtomatyka, No 1, 1966, pp 7-21.
*FTD-HT-23-582-67

Distribution Function of Minority Current Carriers in Semiconductors in Case of a String Spatical Inhomogeneity, by G. E. Tchika,
UKRAINIAN, per, Ukrains'kyi Fizychnyy Zhurnal, Vol X, No 8, 1965, pp 854-860.
ACSI J-1875
ID 2204010867

Energy Conversion (Non-propulsive)

The Possibility of Increasing the Capacity of Francis Turbines by Operating at Reduced Head, by N. P. Polushkin,
RUSSIAN, per, Energeticheskoe Stroitel'stvo, No 34, 1963, pp 66-69.
*CFSTI TT 67-59023

Scientific
Energy Conversion (Non-propulsive (Contd)

Effect of Axial Clearances on Turbine Stage Efficiency, by N. S. Varlamov,
RUSSIAN, per, Energomashinostroenie, No 2, 1956, pp 10-15.
NLL 9022.03 (3979)

Computation of the Natural Frequencies of the Vibrations of the Runners of Francis Turbines, by A. Ya. Aronson,
RUSSIAN, per, Energomashinostroenie, No 3, 1960, pp 8-12.
*CFSTI TT 67-59018

Auxiliary Equipment of Hydraulic Turbines, by N. K. Barkov,
RUSSIAN, per, Energomashinostroenie, No 3, 1965, pp 36-39.
*CFSTI TT 67-59019

Calculation of Losses Arising From the Radial Clearance of a Turbine Rotor, by M. K. Maksutova
RUSSIAN, per, Izv. VUZ. Aviats. Tekh., No 8, 1965, pp 103-109.
AEC-K-tr-11.

Investigating the Flow in Francis Turbines, by V. A. Kolychev and V. E. Lasenko,
RUSSIAN, per, Izvestiya VUZ Energetika, No 2, 1966, pp 89-96.
*CFSTI TT 67-59022

A Measurements Noise Generator, 14 pp.
RUSSIAN, per, Sbornik Vojenske Akademii A. Zapotochkeho Vyznamenane Radem Republiky, Ser B, No 4, 1962, pp 77-85. P100089567
FTD-TT-65-1499

Properties of a Fermi-System With Equal Spacings Between Energy Levels, by Yu. You-wen, Chang Chung-hwa, 32 pp.
CHINESE, per, Wu Li Hsueh Pao, Vol XIX, No 8, 1963, pp 483-502. P100103367
FTD-HT-66-495

Sources of Coherent Light as Quantum Generators and Quantum Magnifiers, by J. Bolf.
CZECH, per, Svetvedy, No 7, 1965, pp 411-415.
*FTD-HT-23-649-67

Scientific
Energy Conversion (Non-propulsive)(Contd)

Fuel Cells as Long Term Energy Sources,
GERMAN, rpt, Brown Boveri Info Sheet 3123D,
No v 1965, 6 pp.
ACSI J-1780
ID 2204007667

Survey Report of the Actual Situation
of Electric Power Enterprises in
Cambodian and South Vietnam, etc, 145pp.
JAPANESE, rpt, Overseas Technical
Cooperation Enterprise, Dec 1965, pp 1-132.
DIA LN 718-66

Materials

Effect of Neutron Irradiation on the Properties
of Titanium and Chromium Carbides, by
M. S. Kovalchenko, et al.
RUSSIAN, per, Akad. Nauk Ukr. SSR, Poroshkovaya
Metallurgiya, Vol 6, No 10, 1966, pp 48-64.
*AEC ORNL-tr-1669

Equipment for Investigating the Pressure and
Composition of a Gas, by A. V. Chernetskiy,
O. A. Zinovev, O. V. Kozlov, 28 pp.
RUSSIAN, bk, Apparatura i Metody Plaz-
mennyykh Issledovaniy, Moscow, Atomizdat,
1965, pp 316-341. P911104267
AEC NP-Tr-1486

Effect of the Additive AzNII-10 on
the Stability and Anti-Wear Properties of
Oils, by A. M. Kuliev.
RUSSIAN, per, Azerb Neft Khoz, Vol XLI,
No 7, 1962, pp 38-39.
*FTD-HT-23-569-67

Application of Ultrasonics in the Inspection of
Rimmed-Steel [Slab] Ingots for Cleanness, by
V. F. Gubar', et al.
RUSSIAN, per, Defektoskopiya, Vol 2, No 5, 1966,
pp 35-40.
HB 7100

Electron Microscopic and Microdiffraction
Investigation of Nonmetallic Impurities
in Molybdenum and Its Alloys, by
N. V. Ageyev, D. V. Ignatov, 6 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXVII,
No 3, 1966, pp 635-636A. P100091467
FTD-HT-66-695

Scientific
Materials (Contd)

Study of the Vibrational State of the Precast
Reinforced Concrete Foundations of a 200-MW
Turbo-set, by A. I. Abashidze,
RUSSIAN, per, Energeticheskoe Stroil, No 47,
1965, pp 7-12.
NLL 9022.09 (4353)

The Phase Analysis of EI347B-Type Alloys
with Different Carbon Contents, by
N. I. Blok, et al,
RUSSIAN, rpt, Fazovyi Sostav. Strukt. i
Svoist. Legir. Stal. i Spavov. Mash.,
1965, pp 28-38.
NLL 9022.4 (66/30)

The Effect of Some Heat-Treatment Conditions
on the Properties of 17Cr-2Ni Steel, by
A. V. Boltarovich,
RUSSIAN, per, Fiz. Khim. Mekhan. Mater.,
Vol I, No 5, 1965, pp 577-582.
NLL 9022.4 (66/60)

Thermodynamics of a Two-Component Liquid Metal
MHD-Power Assembly With Injector, by
K.A. Yakimovich, E.E. Shpil'rain, et al. 12 pp.
RUSSIAN, rpt, International Symposium on Magneto-
hydrodynamic Electrical Power Generation,
Salzburg, Austria, Jul 4-8, 1966. P9110205067
AEC ANL-tr-337

The Heat Source Density and the Temperature
Field in a Ruby Laser Crystal, by
A. V. Kromov,
RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol XI,
No 4, 1966, pp 526-531.
*FTD-HT-23-647-67

Raising the Heat-Resistance of Metals by
Establishing Stable Dislocation Structures,
by L. K. Gordienko,
RUSSIAN, per, Izv. AN SSSR Metall, No 5,
1965, pp 156-163.
NLL 9022.4 (66/26)

Effect of Conditions of Reduction of Iron Powders
by Solid Carbon on its Contamination by Carbon,
Sulfur and Oxygen, by V. F. Knyazev,
B. A. Krashenninnikov.
RUSSIAN, per, Izvest. Akad. Nauk SSSR, Metall,
No 1, 1967, pp 18-32.
HB 7168

Scientific
Materials (Contd)

The Character of Distribution of the Carbide Phase in the Carburized Layer of Alloy Steels, by B. S. Natapov, et al, RUSSIAN, per, Izv. VUZ Chern. Met., Vol VIII, No 2, 1965, pp 134-141.
NLL 9022.4 (66/13)

Study of the Deformation of Mould Walls With an Organic Glass Model, by A. V. Kuska, RUSSIAN, per, Izv. VUZ Chern. Met., No 5, 1965, pp 45-50.
*BISI 5544

The Reduction of Iron From Ferromonticellite, by V. I. Burtsev, et al, RUSSIAN, per, Izv. VUZ Chern. Met., No 1, 1966, pp 5-10.
NLL 5828.4F (12074)

Stability and Strengthening on Nickel Base Alloys Under Exposure to Micro-Cavitation, by Yu. G. Veksler, RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chern Metall, No 1, 1966, pp 132-135.
*FTD-HT-23-651-67

Effect of Blast Supply Characteristics on the Distribution of Gas Flow in the Charge Column, by A. L. Berin, RUSSIAN, per, Izv. VUZ Chern. Met., No 9, 1966, pp 31-35.
*BISI 5540

Texture Formation in Silicon Iron During Primary Recrystallization, by Yu. S. Avraamov, RUSSIAN, per, Izv. VUZ Chern. Met., No 9, 1966, pp 120-123.
BISI 5240

Desulphurization Process in the Oxygen Converter, by V. B. Okhotskiy, RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1966, pp 50-55.
*BISI 5531

Quantity and Composition of Melting Dust in Dust in Basic Arc Steelmaking Furnaces, by V. T. Lutsenko, P. V. Umrikhin, RUSSIAN, per, Izv. VUZ Chern. Met., Vol 10, No 1, 1967, pp 69-73.
HB 7089

Scientific
Materials (Contd)

An Analysis of the Operation of Knuckle Joints, by V. M. Matrosov and B. I. Spiridonov, RUSSIAN, per, Izv. VUZ Geol i Razvedka, Vol VII, No 2, 1964, pp 132-136.
ATS RJ-4550

About the Composition and Methods of Investigation of Coal-Tar Pitch, by A. N. Chistyakov, RUSSIAN, per, Izv. Vysshikh Uchebn. Zavedenii Khim. i Khim. Tekhnol., Vol 8, No 3, 1965, pp 476-484.
Chem Trans Sv 2248

Investigation of the Rapid Mixing Process in a 3A Internal Mixer, by K. D. Bebris, RUSSIAN, per, Kauchuk i Rezina, Vol XVII, No 1, 1958, pp 13-20.
NLL 9022.991B 1966 (CRL/T2363)

Corrosion of Metals and Alloys, Collection No 2, by N. D. Tomashov, E. N. Mirolubov, 322 pp. RUSSIAN, bk, Korroziya Metallov i Splavov, 1965.
CFSTI TT 66-51398

Precipitation Processes and The Qualities of Stainless Steel, by V. Cihal and O. Vanicek, RUSSIAN, per, Kovove Mat., Vol III, No 1, 1965, pp 161-169.
NLL 5828.4 1965 (5819)

Relations Between Precipitation Processes of Heat-resistant Ni-Cr Base Alloys, by J. Voboril, et al, RUSSIAN, per, Kovovoe Materialy, Vol III, No 3, 1965, pp 257-272.
NLL 5828.4F 1966 (5875)

A Study of Inelastic Deformations in Metals Under Cyclic Deformation, by V. I. Bugav, RUSSIAN, per, Materialy Soveshchaniya, 1965, pp 160-169.
*FTD-HT-23-618-67

Structure and Properties of Copper Base Alloys, Alloyed With Cobalt and Silicon, by V. F. Grabin, Yu. B. Malevskii, RUSSIAN, per, Metall i Term Obrab Metall, No 3, 1965, pp 28-32.
Chem Trans Sv No 2667

Scientific
Materials (Contd)

Nickel Chromium Alloys with Niobium, by
G. A. Sveshnikova,
RUSSIAN, per, Metallov. Term. Obrab. Metal.,
No 1, 1966, pp 29-34.
NLL 9022.4 (66/111)

Properties of Additionally Alloyed Nickel-
Beryllium Alloys, by V. A. Borisov.
RUSSIAN, per, Metall i Termich Abrabotka
Metallov, No 6, 1966, pp 12-16.
*FTD-HT-23-638-67

Diffusion and Thermodynamic Characteristics of
Nickel-Chromium Alloys, by G. B. Fedorov,
E. A. Smirnov. 12 pp-
RUSSIAN, per, Metallurgiya i Metallovedenie
Chistykh Metallov, Moskovskii Inzhenerno Fizicheskii
Institut, Sbornik Nauchnykh Rabot, No 4, 1963,
pp 110-121.
AEC AERE-tr-1031

Modern Aids in the Detection of Flaws in
Glass Reinforced Plastics, by
V. I. Pyatnitskiy and N. S. Savoroskiy,
RUSSIAN, per, Plasticheskiy Massy, No 10,
1965, pp 44-52.
NLL 5828.4 F (5891)

Preface, by A. A. Konkin and M. P. Zverev,
RUSSIAN, per, Poliolefinovyye Volokna USSR,
1966, pp 5-7.
ACSI J-1634
ID 2204002967

Foreword, by A. A. Konkin and M. P. Zverev,
RUSSIAN, per, Poliolefinovyye Volokna USSR,
1966, pp 7-11.
ACSI J-1634
ID 2204002967

Obtaining the Structure and the Properties of
Polyolefins, Chapter I, by A. A. Konkin and
M. P. Zverev,
RUSSIAN, per, Poliolefinovyye Volokna USSR,
1966, pp 12-62.
ACSI J-1634
ID 2204002967

Properties and Area of Employment of Polyolefin
Fibers, by A. A. Konkin and M. P. Zverev,
RUSSIAN, per, Poliolefinovyye Volokna USSR,
1966, pp 196-224.
ACSI J-1634
ID 2204002967

Scientific
Materials (Contd)

Modification of the Properties of Polyolefin
Fiber, by A. A. Konkin and M. P. Zverev,
RUSSIAN, per, Poliolefinovyye Volokna USSR,
1966, pp 225-268.
ACSI J-1634
ID 2204002967

Roll Compacting of Metal Powders, by
G. A. Vinogradov.
RUSSIAN, bk, Prokatka Metallicheskih
Poroshkov, 1960, 86 pp.
*FTD-MT-67-67

Designing Orthotropic Plates With Regard to
Bending, by S. A. Klimov.
RUSSIAN, per, Sbornik Materialy po Metal
Konstruktsiyam, Vol VIII, 1964, pp 116-153.
*FTD-HT-23-624-67

Thermo-Chromatographic Determination of Carbon
and Sulphur in Metals, by O. A. Sukhorukov,
A. A. Zhukhvitskiy.
RUSSIAN, per, Sbornik Mosk. Inst. Stali i Splavov,
No 41, 1966, pp 77-80.
HB 7094

Natural Vibration of Plates and Shells,
by V. S. Gontkevich.
RUSSIAN, bk, Sobstvennyye Kolebaniya
Plastinok i Obolochek, 1964.
*FTD-HT-23-612-67

Utilization of Electrostatic Charges and
Electromagnetic Fields for Drawing of
Fiber Materials, by P. D. Balyasov, 6 pp.
RUSSIAN, per, Tekstil'naya Prom, Vol XXII,
No 9, 1962, pp 47-51.
CFSTI TT 66-51138

The Theory of Metal Extrusion, by
Il'ya L'vovich Perlin.
RUSSIAN, bk, Tooriya Pressovaniya Metallov,
1964, 343 pp.
*FTD-HT-23-616-67

Investigation of the Sintering of Mullite
Ceramics Synthesized from Commercially Pure
Materials, by E. B. Kroll, et al.
RUSSIAN, per, Trudy Gos. Nauch. Issled. Inst.
Stroitel'nykh Keram., No 24, 1964, pp 105-127.
*AEC

Scientific
Materials (Contd)

Effect of Concentration of Stresses on Static Crack Strength of Aluminum Alloy V95, by N. A. Borodin, 8 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Fatigue Properties of Aluminum Alloy Used for Helicopter Blades, by Ye. V. Giatsintov, M. N. Stepnov, 20 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Influence of Concentration of Stresses on Fatigue of Aluminum Alloy V95, by Ye. V. Giatsintov, M. N. Stepnov, 6 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Investigation of Mechanical Properties of Aluminum Alloys During Compression, by G. T. Ivanov, V. S. Strelyayev, 7 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Mechanical Properties of Aluminum Alloys. D16 and V95 in Connection With the Technology of Manufacturing Semi-Finished Products From Them, by N. A. Borodin, Ye. V. Giatsintov, 24 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Method of Determining Stress-Rupture Strength of Slightly Embrittled Materials, by N. A. Borodin, 6 pp.
RUSSIAN, per, Trudy Inst Aviat Tekh, Vol LI, 1961.
FTD-MT-64-91

Separation of Manganese in the Form of Dioxide from Nickel and Cobalt, by E. S. Dzshaparidze and D. A. Gorgishvili, RUSSIAN, per, Tr. Inst. Met. AN GruzSSR, No 13, 1962, pp 255-263.
NLL 5828.4 1965 (5826)

Kinetics of the Deoxidation Processes as Applied to Metals, by P. Ya. Ageyev, RUSSIAN, per, Trudy Kinetika Fiz. Khim. Osnov. Proizv. Stali Ak Nauk SSSR Inst. Met. im. A. A. Baikova, Vol V, 1959, pp 422-431.
NLL RTS 3429
(On Loan or Purchase)

Scientific
Materials (Contd)

The Use of Acid Resisting Light Sensitive Emulsions to Produce Local Inhomogeneities With High Resolution in Single Crystals and Films of Germanium and Silicon, by Yu. I. Federov.
RUSSIAN, per, Trudy Mezhdvuzovskaya Nauchno-Tekh Konferentsiya po Fizike Poluprovodnikov, 1964, pp 476-490.
*FTD-MT-23-610-67

Hydrostatic Extrusion of Carbon and Graphite Materials, by A. M. Sigarev.
RUSSIAN, per, Trudy Sbornik Konstruktsionnyye Uglegrafitovyye Materialy, No 1, 1964, pp 30-33.
*FTD-MT-23-633-67

Heat-Resistance of Ferrous Alloys, by K. V. Gorov and E. P. Pukhovskiy, RUSSIAN, per, Vestsi Ak Nauk Bel. SSR, Ser. Fiz. Tekh. Nauk, No 4, 1963, pp 107-113.
NLL 5828.4F 1966 (5871)

Theory of the Optical Absorption in Crystals Placed in an External Field, by Ya. A. Rozneritsa.
RUSSIAN, per, Vest Mosk Univ, Ser III, Fiz. Astron, No 2, 1966, pp 14-20.
*FTD-MT-23-658-67

Investigation of Mechanical Properties of High-Melting Materials at High Temperatures in a Vacuum and in an Inert Medium, by G. S. Pisarenko.
RUSSIAN, per, Vsesoyuz Sovesh po Voprosam Statcheskoy i Dinamicheskoy Prochnosti Materialov i Konstruktsionnykh i Nizkikh Temperaturakh, 1965, pp 7-13.
*FTD-MT-23-618-67

Apparatus for Measuring Weight, by A. S. Belyakov,
RUSSIAN, Patent No 155,014.
NLL RTS 3256
(On Loan or Purchase)

Automatic Balance, by V. M. Kazanskiy and L. N. Belyi,
RUSSIAN, Patent No 161,524.
NLL RTS 3063
(On Loan or Purchase)

Pneumatic Tire,
RUSSIAN, Patent No 180,099, 1966.
ACSI J-1655
ID 2204003567

Scientific
Materials (Contd)

Types of Iron Ores in Bulgaria and Their Economic Significance, by V. Panayotov, 7 pp.
BULGARIAN, per, Priroda, No. 6, Nov/Dec 1966, pp. 29-33.
JPRS 40085

Reinforced Plastics: A Kind of Nonmetallic Material Widely Used in Aviation, by Sung Ch'en.
CHINESE, per, Hang Kung Chih Shih, Vol II, No 11, 1965, pp 10-11.
*FTD-HT-23-592-67

Study of Alumina as a Raw Material for Synthetic Gems (Process of Thermal Decomposition of Alum), by Shinzo Okada, Kenshin Kuwashima, 18 pp.
CHINESE, per, Kogyo Kagaku Zasshi, Vol LIX, No 11, 1956, pp 1301-1304.
P922094867
AFCRL Emm-66-74 (J)

Mass Spectrography for the Analysis of Solids. (II) Determination of the Isotopic Ratios of Lead, Thorium and Uranium in Minerals, by Tutomu Makita, Shingo Nishiyama, 14 pp.
CHINESE, per, Shituryo Bunseki, Vol XII, No 28, 1965, pp 223-228. P922094767
AFCRL Emm-65-43 (J)

Dislocation Damping in Nickel-Carbon Solid Solution in the Process of Plastic Deformation, by Ko, Ting'sui.
CHINESE, per, Wu Li Hsueh Pao, Vol XXI, No 1, 1965, pp 154-160.
*FTD-HT-23-603-67

A Study of Dislocation Structure of Subboundaries in Molybdenum Single Crystals, by Feng, Tuan.
CHINESE, per, Wu Li Hsueh Pao, Vol XXI, No 2, 1965, pp 431-443.
*FTD-HT-23-593-67

Interaction of Solute Atoms With Dislocations in Aluminum-Magnesium Alloys Under Fatigue Loading, by Wang, Chung Kuang.
CHINESE, per, Wu Li Hsueh pao, Vol XXI, No 6, 1965, pp 1253-1263.
*FTD-HT-23-604-67

The Influence of Some Metallurgical Factors on the Mechanical Properties of Rolled Products of Great Thickness, by J. Kermes.
CZECH, per, Hutn. Listy, Vol 20, No 4, 1965, pp 261-267.
BISI 5248

Scientific
Materials (Contd)

Influence of Mo on Heat Resistance of Low Carbon CrMoV Steels, by Tasilo Prnka.
CZECH, per, Hutnicke Listy, No 4, 1966, pp 265-269.
*FTD-HT-23-628-67

Possibility of Wedge Test Application for Evaluating Hot Workability of Steels, by M. Endrie.
CZECH, per, Hutn. Listy, Vol 21, No 7, 1966, pp 477-480.
*BISI 5519

Factors Governing Finish Rolling and Coiling Operations of Continuously Hot Rolled Strips and Laboratory Establishment Thereof, by M. Endrie.
CZECH, per, Hutn. Listy, Vol 21, No 9, 1966, pp 616-620.
*BISI 5539

Defects of Annealed High-Carbon Steel Strip. Part II of 'Defects in the Heat Treatment of Cold-Rolled Steel Strip', by V. Dedek.
CZECH, per, Hutnik (Prague), Vol 15, No 10, 1965, pp 445-450.
HB 7036

Experience at the Il'ich Steelworks in the Operation of Open Hearth Furnaces Using Natural Gas, by E. A. Kapustin, et al.
CZECH, per, Metallurgiya Stali. Sbornik, No 10, 1964, pp 69-85.
*BISI 5527

Aluminum External Wall Panels, by F. Jelinek and L. Novak,
CZECH, per, Pozemni Stavby, No 8, 1966, pp 424-426, 429-435.
*ACSI J-2031
ID 2204012767

Determination of the Optimal Worm-Ingot Charging Time, by M. Redr.
CZECH, per, Sbornik VSB Ostrave, Vol 11, No 1, 1965, pp 177-187.
BISI 5215

Effect of Two-Phase Structure on Forming Properties of High Alloyed Chromium and Chrome-Nickel Steels, by J. Elfmark.
CZECH, per, Sbornik V. S. B. Ostrave, Vol 11, No 4, 1965, pp 731-749.
BISI 5241

Utilisation of Insulating and Exothermic Materials in Steel Foundries, by A. Hrbek, et al.
CZECH, per, Slevarentsavi, Vol 14, No 10, 1966, pp 410-415.
*BISI 5508

Scientific
Materials (Contd)

Requirements for the Manufacture of Electrolytic Tinplate, by M. Nepper.
DUTCH, per, Metaal en Kunststof, Vol 4, No 11, 1966, pp 574-577.
*BISI 5522

Requirements for the Manufacture of Electrolytic Tinplate, by M. Nepper.
DUTCH, per, Metaal en Kunststof, Vol 4, No 11, pp 626-630.
*BISI 5523

Fabrication of Special Tubes for Thermal Applications, by H. Frank.
DUTCH, per, Metalen en Andere Constructiematerialen, Vol 40, Jul 1966, pp 3-12.
*BISI 5461

Investigations Carried out About the Radiation of Flames, by P. Lhospied, et al.
FRENCH, rpt, 15-19 Jun 1965, pp 1034-1075.
*BISI 5506

Measuring Relaxation and Residual Stresses, by M. Colmard.
FRENCH, per, C.D.S. Circ, Feb 1966, pp 519-536.
BISI 5265

Measurements of Torque and Power Values on the Bonpertuis 380 Rolling Mills, by J. C. Albert, C. Lachenait.
FRENCH, per, C.D.S. Circ, No 5, 1966, pp 1215-1234.
BISI 5272

Coal Handling and Preparation in Coke Plants, by G. Dulucq, et al.
FRENCH, per, C. D. S. Circ, No 9, 1966, pp 1961-1992.
*BISI 5500

The LD-AC Works of Arbed Esch-Belval, by C. Pescatore, J. Jung.
FRENCH, per, C.N.R.M., Dec 1966, pp 29-39.
BISI 5467

Effects of Austenitization Temperature on the Room-Temperature Mechanical Properties of Low-Carbon Steels With Small Niobium Additions (Less Than 0.1 Percent), by P. Mandry.
FRENCH, per, Comptes Rend., Vol 261, 11 Oct 1965, pp 2895-2898.
*BISI 5491

Scientific
Materials (Contd)

Effect of Carbon on the Primary Crystallization of Low Content U-Mo Alloys, by Michel Colombie.
FRENCH, rpt, Influence du Carbone sur la Cristallisation U-Mo de Faibles Teneurs, Dec 1966.
*AEC ORNL-tr-1668

Use of Virtual Bound Levels in the Rare Earth Metals, by Y. A. Rocher. 22 pp.
FRENCH, per, J. Phys. Chem. Solids, Vol 23, 1962 pp 1621-1629
AEC LA-tr-65-22

New Caledonian Nickel, by J. Guillard.
FRENCH, per, Mem. Sci. Ing. Civ. France, Vol 114, Nov 1961, pp 21-28.
BISI 5084

Quantitative Electron Probe Microanalysis, by J. Philibert.
FRENCH, per, Met. Corros. Ind, May 1964, pp 157-176: Jun 1964, pp 216-240: Sept 1964, pp 325-342.
*BISI 5509

Orientation of Reaction Products on the Surface of a Metal, by J. Bardolle.
FRENCH, per, L'Oxydation des Metaux, Vol 1, 1962, pp 134-151.
BISI 5230

Choice of Sintering Properties for Lorraine Ores, by M. Boucraut, R. Rochas.
FRENCH, per, Rev. Met. Vol 62, Jul-Aug 1965, pp 631-634.
BISI 5316

A Testing Method for Refractories for Pusher-Type Furnaces (with Discussion), by A. Auerbach.
FRENCH, per, Rev. Met., Vol 63, Jan 1966, pp 41-45.
BISI 5263

The Principal Methods for Measuring the Resistance to the Propagation of Cracks. Analysis of Some Results, by D. Douillet.
FRENCH, per, Rev. Met., Vol 37, Sep 1966, pp 725-731.
*BISI 5558

Radioactive Tracer Study of the Cleanness of Bottom-Poured Steel, by A. Kohn, J. Arnoult.
FRENCH, per, Rev. Met., Vol 63, Sep 1966, pp 667-672.
BISI 5305

Scientific
Materials (Contd)

Contribution to the Study of Metallurgical Factors Affecting the Dimensional Stability of Steels, by P. Duval.
FRENCH, per, Rev. Met., Vol 63, Sep 1966, pp 707-717.
*BISI 5401

A New Method of Refining Iron by Electron Transfer in Ferrous Oxide, by Ph. Desmarest, P. Lacombe.
FRENCH, per, Rev. Met. Mem. Sci., Vol 63, Jan 1966, pp 11-19.
*BISI 5264

The Preparation of the Blast Furnace Charge at Forges de la Providence, by P. Charon, H. Landgraf
FRENCH, per, Rev. Univ. Min., Mar 17, 1961, pp 99-110.
*BISI 3088

Stock Standardization and Storage at Sidmar, by R. Frerard, et al.
FRENCH, per, RUM, No 109, Nov 1966, pp 281-293.
*BISI 5499

The Bolting of Aluminium, by C. O. Bauer.
GERMAN, per, Aluminium, Vol 42, No 2, 1966, pp 117-122.
*BISI 5501

Decarburization-Free Annealing of Non-Alloy Steels Under AC_1 and Above AC_3 in Protective Gas, by P. H. Ebner, et al.
GERMAN, per, Arch. Eisenh., Vol 34, Mar 1963, pp 167-171.
*BISI 5557

The Crystallographic Properties of Deformation Twins in Martensite, by G. Krauss, et al.
GERMAN, per, Arch. Eisenh., Vol 35, Jul 1964, pp 667-675.
*BISI 5537

Effect of Chromium on the Activity of Carbon in the Iron-Chromium-Carbon System at 100°C, by K. Bungardt, et al.
GERMAN, per, Arch. Eisenh., Vol 35, Oct 1964, pp 999-1007.
*BISI 5538

Kinetics of Annealing With Special Regard to the Oxygen Top Blowing Method, by F. Oeters.
GERMAN, per, Arch. Eisenh., Vol 37, Mar 1966, pp 209-219.
*BISI 5505

Scientific
Materials (Contd)

Investigation of the Transformation Behaviour of Iron-Manganese Alloys by Damping Measurement in the Region of 1 Cycle/Sec, by E. Schmidtman.
GERMAN, per, Arch. Eisenh., Vol 37, Jul 1966, pp 561-567.
*BISI 5535

Studies of Deformation by Plastic Shock of Austenitic Single Crystals, by E. Schmidtman.
GERMAN, per, Arch. Eisenh., Vol 37, Dec 1966, pp 971-980.
*BISI 5541

Experience With USSR Oil - Lubricating Bearings in the Trinec Merchant Mill Supplied by German Democratic Republic, by Danek.
GERMAN, per, ASG Mitteilungen, Vol 2, Mar 1965, pp 357-362.
*BISI 5559

Spiral Tubes: Properties and Certain Possibilities of Application, by W. Schmidt, et al.
GERMAN, per, Bander Bleche, No 6, 1963, pp 298-304.
*BISI 5554

Galvanising Pots - Their Durability and the Factors Controlling it, by K. Remmer.
GERMAN, per, Bander Bleche, Vol 6, Jan 1965, pp 5-9.
*BISI 5381

Material Flow in the Sinking of Tubes, by M. Vater, H. Kron.
GERMAN, per, Bander Bleche, Vol 7, Oct 1966, pp 691-698.
*BISI 5370

Influence of Various Heat Treatments on the Solubility of Carbon in Alpha-Iron and the Elimination of Aging in Low-Carbon Steels, by M. Nacken, et al.
GERMAN, per, Bander Bleche, Vol 7, No 10, 1966, pp 699-709.
*BISI 5534

Automation in the Pickling Shop, by E. Thon.
GERMAN, per, Bander Bleche, Nov 1966, pp 759-767.
*BISI 5393

Automation of the Ultrasonic Examination of Flats [at Rolling Mills], by F.A. Silber, O. Ganglbauer.
GERMAN, per, Berg- und Huttenmannische Monatshefte, Vol 111, No 9, 1966, pp 393-398.
*HB 7005

Scientific
Materials (Contd)

Influence of Crystal Segregation in Alloy Steels on Transformation Behaviour, by A. Kulmburg.
GERMAN, per, Berg-Hutten. Monatsh., Vol 111, No 9, pp 420-428.
BISI 5368

Statistical Analysis of the Delta Ferrite Content of Austenitic Steels, by St. Mayerhofer, H. Kohl.
GERMAN, per, Berg-Hutten. Monatsh., Vol 111, No 9, pp 443-453.
BISI 5304

The Development of Corrosion-Resistant High-Strength 13 Percent Chromium Steels, Particularly for Turbine-Blade Service, by E. Krainer.
GERMAN, per, Berg-Hutten. Monatsh., Vol 111, No 9, 1966, pp 460-466.
BISI 5388

The Development of Non-Magnetisable Steels for Specialised Applications, by H. Kohl, et al.
GERMAN, per, Berg-Hutten. Monatsh., Vol 111, Nov. 1966, pp 501-511.
*BISI 5517

Influence of the Tube Diameters on the Spreading of a Detonation in Explosive Gas Mixtures. Part I. Inert Gas and Tube Diameter Influence on the Detonation Limits of Several Explosive Gas Mixtures, by W. Pusch, G. Wagner.
GERMAN, per, Berichte der Bunsen Gesellschaft, Vol 69, No 6, 1965, pp 503-513.
Chem Trans Sv 2767

Ceramics Reinforced by Fibers, by U. Hoffmann,
GERMAN, per, Ber. Deut. Keram. Ges., Vol XLIII, 1966, pp 337-345. P911099067
AEC-NP-TR-1494

Paint Films on Galvanised Surfaces, by K. A. van Oesteren.
GERMAN, per, Blech, Vol 12, No 4, 1965, pp 171-172.
BISI 5380

Scientific
Materials (Contd)

Stainless Steel Sheets in U.S.A., by E. Heckelburg.
GERMAN, per, Blech, Vol 12, Nov 1965, pp 642-646.
BISI 5190

Contribution to the Uonduction Theory of Three-Phase Electric Arc Furnaces, by E. Horoszkó.
GERMAN, per, Elektrowarme, No 24, Oct 1966, pp 351-356.
*BISI 5502

Phosphating as Corrosion Protection of Iron and Steel, by H. Blum.
GERMAN, per, Fachber. Oberflächentechn., Vol 4, 1966, pp 50-59.
*BISI 5520

Investigation into the Feeder Technique as Applied to Cast Iron. Part C 'On the Problem of Feeding Cast Iron Castings', by W. Koppe, S. Engler.
GERMAN, per, Giesserei, Vol 49, No 11, 1962, pp 296-306.
HB 6811-II

To Obtain the Optimum Effects from Moulding-Sand Additions on the Surface Condition of Castings, by A. Kolorz, et al.
GERMAN, per, Giesserei, Vol 51, No 23, 1964, pp 706-715.
*BISI 5514

Pin Holes Due to Hot-Box-Cores in Cast Iron With Flake Graphite, by H. Berndt.
GERMAN, per, Giesserei, Vol 52, 2 Sep 1965, pp 548-555.
BISI 5183

Influence of Composition and Compression of Green Sand on Tensile and Compression Strength of Test Specimens and Sand Moulds (Part 3), by D. Boenisch.
GERMAN, per, Giesserei, Vol 53, No 21, 1966, pp 706-715.
*BISI 5515

Vacuum Melting of Stainless Steel, by W. Stawicky.
GERMAN, per, Giesserei, Vol 53, 14 Apr 1966, pp 229-237.
*BISI 5530

Influence of Composition and Compression of Green Sands on Tensile and Compression Strength of Test Specimens and Sand Moulds (Part 3), by D. Boenisch.
GERMAN, per, Giesserei, Vol 53, No 22, 1966, pp 748-752.
*BISI 5516

Scientific
Materials (Contd)

Metal-Mould Reactions in the System Comprising Molten Cast Iron and Moulding Sand Mixture, With Particular Reference to Barbonaceous Additions to the Moulding Sand, by A. Kolorz, et al.
GERMAN, per, Giess. Techn. Wiss., Vol 15, Oct 1963, pp 191-209.
*BISI 5512

Surface Tension of Magnesium-Free and Magnesium-Containing Near-Eutectic Iron-Carbon Alloys Containing Additions of Bismuth, Lead, Copper, Titanium and Zirconium, by K. Lohberg, et al.
GERMAN, per, Giess. Techn. Wiss., Vol 18, No 4, 1966, pp 189-196.
*BISI 5507

Constitutional Supercooling and Formation of Eutectic Subgrains in Flake Graphite-Containing FE-C-SI Alloys, by B. Lux.
GERMAN, per, Giess. Techn. Wiss., Vol 18, No 4, 1966, pp 219-229.
BCIRA No T 1222

Laboratory Tests on Pressure-Die-Casting Lubricants, by W. Kajoch.
GERMAN, per, Giessereitechnik, No 12, 1966, pp 292-294.
*BISI 5511

Electrolytically Chromium Coated Sheet.
GERMAN, per, Handelsblatt, No 121, 29 Jun 1966.
BISI 5090

The Present State of Development in Nitriding, by H. Wiegand.
GERMAN, per, Hart. Techn. Mitt. Vol 21, No 4, 1966, pp 263-270.
*BISI 5518

The Carburisation of Case-Hardening Steels in the Temperature Range Between 920 and 1100°C, by A. Randak, E. Kiderle.
GERMAN, per, Hart. Techn. Mitt., Vol 21, No 3, 1966, pp 190-198.
BISI 5231

Mechanical Properties of Carbonitrided Steels, by B. Prenosil.
GERMAN, per, Hart. Techn. Mitt., Vol 21, No 3, 1966, pp 199-209.
BISI 5232

Scientific
Materials (Contd)

Mechanical Properties of Carbonitrided Steels - Part w, by B. Prenosil.
GERMAN, per, Hart. Techn. Mitt., Vol 21, No 4, pp 271-285.
*BISI 5536

The Influence of Non-Metallic Inclusions on the Machinability of Unalloyed Structural Steels, by W. Konig.
GERMAN, per, Industrie Anzeiger, Vol 37, No 26, pp 61-68; No 43, pp 131-136; No 51, pp 165-170, 1965.
*BISI 5543

Laminates From Glass Silk Quilted Mat and Glass Fiber Papers, by Rudolf Wolf.
GERMAN, per, Kunststoffe, Vol 53, No 9, 1963, pp 597-605.
AEC SC-T-65-716

Tanning Solvents in the CSSR, by Helmut Weber,
GERMAN, per, Leder Schuhe Lederwaren, No 11, 1966, pp 428-430.
ACSI J-1651
ID 2204003267

Welded Precision Steel Tubes for Oil Pressure Lines, by G. Rothe, et al.
GERMAN, per, Der Maschinenbau, No 10, 1963, pp 401-406.
*BISI 5542

Structure of Chromized and Aluminized Layers on Alloy Steels, by G. Lennartz, H. de Laffolie.
GERMAN, per, Mikrochimica Acta, Aug 1966, pp 174-185.
BISI 5217

Pre-heating of Electric Arc Furnace Charges, by G. Suptitz.
GERMAN, per, Neue Hutte, Vol 4, No 10, 1959, pp 622-623.
*BISI 5529

Development and Trial of an Oxy-Oil Burner in an Open-Hearth Furnace, by W. Lehmann, et al.
GERMAN, per, Neue Hutte, Vol 11, No 11, 1966, pp 662-666.
*BISI 5526

On Some Promising Processes for Rust-Proofing Sintered Iron and Sintered Steel, by H. Rebsch.
GERMAN, per, Neue Hutte, Vol 12, No 1, 1967, pp 43-48.
*HB 7116

Scientific
Materials (Contd)

Investigations Relating to the Plastic Behaviour of Hard Coals, by H. Schmitt.
GERMAN, Paper B.1 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry 19-22 Sep 1966.
*BISI 5472

Classifying the Coking Behaviour of Hard Coal, by W. Simonis.
GERMAN, Paper B.2 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5473

How Should One Tackle a Coking Problem With a New Coal? by P. Foch, C. Meltzheim.
GERMAN, Paper B.3 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5474

Testing the Reactivity of Coke Under Blast Furnace Conditions, by H. Schenck, et al.
GERMAN, rpt, Paper C1 Presented at International Congress on 'Coke in Iron and Steel', 19-22 Sept 1966.
*BISI 5503

Reactivity of Reducing Coke in the Blast Furnace, by B. Marincek.
GERMAN, per, Paper C2 Presented at International Congress on 'Coke in Iron and Steel', 19-22 Sept 1966.
*BISI 5504

Alteration of Coke Properties by Partial Gasification, by K. H. Koch.
GERMAN, Paper C.21 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5480

Electron Microscopy of Small Defect Clusters in Irradiated Metals. I. The Theory of Contrast and Experimental Methods for Determination of the Type of Defect, by M. Ruhle.
GERMAN, per, Physica Status Solidi, Vol 19, 1967, pp 263-278.
*AEC 2540

Electron Microscopy of Small Defect Clusters in Irradiated Metals. II. Investigations on Neutron and Ion Irradiated Copper and Neutron Irradiated Nickel, by M. Ruhle.
GERMAN, per, Physica Status Solidi, Vol 19, 1967, pp 279-295.
*AEC 2541

Scientific
Materials (Contd)

The Production and Application of Plastics in East Germany, by H. Grube, 14 pp.
GERMAN, per, Plaste und Kautschuk, No. 2, Feb 1967, pp. 73-78.
JPRS 40372

The Introduction of Oxygen Into the Flame of Mixed Gas Furnaces, by W. Deilmann, E. Klimanek.
GERMAN, per, Radex Rund, No 5, 1966, pp 269-279.
BISI 5295

Contribution to Iron Sponge Production, by B. Marincek.
GERMAN, per, Radex Rundschau, No 5, 1966, pp 280-290.
*BISI 5533

Structure, Mechanical and Corrosion Characteristics of Chemically Resistant Steels With High Boron Contents, by H. Zitter, H. Weingerl, et al.
GERMAN, per, Radex Rundschau, No. 5, 1966, pp 304-311.
HB 7039

New Concepts and Experiences in Maintaining the Air Clean in Steelworks, by K. Guthmann.
GERMAN, per, Radex Rund, Jun 1966, pp 139-162.
BISI 5117

On the Drying of [Steelplant] Pouring Ladles, by W. Dielmann, et al.
GERMAN, per, Radex Rund, No 1, 1967, pp 401-406.
*HB 7113

On the Use of Cerium-Lanthanum Misch Metal in the Production of (High) Alloy Steel, by A. Schoberl
GERMAN, per, Radex Rund, Feb 1967, pp 414-428.
*HB 7118

The Bohler Strand Reducing (BSR) Process, an Improved Continuous Casting Process [for Steel], by B. Tarmann, H. Vonbank.
GERMAN, per, Radex Rundschau, No 1, 1967, pp 429-438.
HB 7115

Plastic Coated Steel Pipe for Buried Pipelines, by V. Hauk.
GERMAN, per, Rohre-Rohrleitungsbau-Rohrleitungstransport, Vol 5, Jun 1966, pp 125-131.
BISI 5238

Scientific
Materials (Contd)

Experience With High Alloy Steels for Boiler Construction and Their Welding, by W. Muller, H. R. Kautz.
GERMAN, per, Schweissen Schneiden, Vol 16, Jun 1964, pp 228-233.
BISI 5455

Further Developments in the Reduction of Salzgitter Ore, by H. Schumacher.
GERMAN, per, Stahl Eisen, Vol 80, 27 Oct 1960, pp 1458-1468.
BISI 3092

Metallurgical Investigations on Basic Oxygen (LD) Blows Produced from Low-Phosphorus Hot Metal, by H. vom Ende, F. Bardenheuer, et al.
GERMAN, per, Stahl und Eisen, Vol 86, No 18, 1966, pp 1117-1122.
HB 6979

Investigation of the Effect of a Short Recrystallisation Annealing Treatment on the Mechanical and Technological Properties of Thin, Low Carbon Steel Strip With Special Reference to Quench Ageing, by H. U. Weigel.
GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966, pp 1290-1300.
BISI 5254

Effect of Manufacturing Conditions on the Service Performance of [Hot and Cold] Galvanized Steel Wire, by R. Nunninghoff.
GERMAN, per, Stahl und Eisen, Vol 86, No 20, 1966, pp 1300-1308.
HB 7006-I

Deformation-Resistance and Torque in Break-Down Pass Rolling, by O. Pawelski, et al.
GERMAN, per, Stahl Eisen, Vol 86, 20 Oct 1966, pp 1375-1383.
*BISI 5528

Effect of Alumina on the Properties of Sinters Containing Oxide, by R. Euler, et al.
GERMAN, per, Stahl Eisen, Vol 86, 3 Nov 1966, pp 1465-1469.
*BISI 5498

Operation of D. C. Reversing Mill Motors With Elevated Constant Current During Acceleration and Braking, by J. Heidepriem.
GERMAN, per, Stahl Eisen, Vol 86, 15 Dec 1966, pp 1654-1667
*BISI 5510

Scientific
Materials (Contd)

Studies of Damage Suffered by Steels When Exposed to Moist Hydrogen Sulphide, by W. Dahl, et al.
GERMAN, per, Stahl Eisen, Vol 87, No 3, 1967, pp 125-136.
*HB 7165

Creep Rupture Behaviour of Tensile Test Bars From a Tube Steel Having a Minimum Yield Point of 30KG/SQ MM in Solutions and Gases Containing Hydrogen Sulphide, by H. Schenck, et al.
GERMAN, per, Stahl Eisen, Vol 87, No 3, 1967, pp 136-146.
*HB 7166

Creep Rupture Tests on High Tensile Steels in Gases and Solutions Containing Hydrogen Sulphide (Including the General Discussion), by F. K. Naumann.
GERMAN, per, Stahl Eisen, Vol 87, No 3, 1967, pp 146-154.
*HB 7167

Injection of Coke Gas Into the Blast Furnace, by W. Looz, D. Winzer.
GERMAN, per, Stahl Eisen, Vol 87, No 4, 1967, pp 185-187.
HB 7108

Comparative Assessment of Coke Gas and Natural Gas Injection into Blast Furnace, by R. Gorgen, H. Weineck.
GERMAN, per, Stahl Eisen, Vol 87, No 4, 1967, pp 188-190.
HB 7109

Desulphurization of Pig Iron by the Dip Lance Process, by H. Bohl, W. Maschlanka.
GERMAN, per, Stahl Eisen, Vol 87, No 4, 1967, pp 190-195.
HB 7110

The Adhesion of Zinc Coatings to [Steel] Wire, by D. Horstmann.
GERMAN, per, Stahl Eisen, Vol 87, No 6, 1967, pp 331-336.
*HB 6923

Welded Steel Pipes for High Stresses, by W. Schmidt.
GERMAN, per, Techn. Mitt., Vol 57, No 11, 1964, pp 534-541.
*BISI 5551

Adaption of Highly Stressed Rolled Bearings From Grease and Oil Lubrication as Carried out in a Plate Mill, by G. Gulker.
GERMAN, per, VDI-Berichte, No 111, 1966, pp 31-37.
*BISI 5532

Scientific
Materials (Contd)

Ester Groups as Ligands in Heavy-Metal Chelates. Part II. Complex Formation of Aminopolycarboxylic Acid Esters With Transition-Metal Ions, by Luther Beyer. GERMAN, per, Zeit fur Anorganische und Allgemeine Chemie, Vol CCCIX, No 1-2, 1965, pp 8-19.
*FTD-HT-23-449-67

3. Electrosyntheses - Formation of Metal Hybrides by Atomic Hydrogen, by Erich Pietsch, 24 pp.
GERMAN, per, Ztschr. Elektrochem, Vol 39, No 7b, 1933, pp 577-586. P911105567
AEC ORNL-TR-1576

An Adiabatic High-Temperature Calorimeter for the Determination of Heat Effects Occuring in the Case of Alloy-Formation, by O. Kubaschewski. GERMAN, per, Zeit. Elektrochem, Vol 45, No 8, 1939, pp 630-636.
*BISI 5513

The Question of Inverse Ingot Segregation, by W. Roth.
GERMAN, per, Z. Metallk., Vol LVI, 1965, pp 713-719.
Chem Trans Sv No 2619

Representation of Sheet Texture by Three Inverse Pole Figures, by H. J. Bunge.
GERMAN, per, Z. Metallk., Vol 56, No 6, 1965, pp 378-379.
BISI 5438

Recrystallization Processes, by G. Wassermann.
GERMAN, per, Z. Metallk., Vol 57, Jul 1966, pp 493-499.
BISI 5133

Inverse Segregation in Ingots of Non-Ferrous Metals, by H. Vosskuhler.
GERMAN, per, Z. Metallkde. Vol LVI, 1965, pp 719-729.
Chem Trans Sv No 2620

The Mechanism of Conduction in Selenium, by H. Eggert.
GERMAN, per, Z. Naturforsch., Vol XXIA, 1966, pp 658-660.
Chem Trans Sv No 3074

Scientific
Materials (Contd)

The Elastic-Plastic Behavior of a Cation Exchanger, by D. Koschel, et al.
GERMAN, per, Zeit. fur Physikal Chemie, No 11, 1957, pp 137-149.
*AEC ORNL-tr-1663

Process for Manufacturing Cable Joints Without Metallic Housing and Without Preformed Casing, by Emil Wagele, 8 pp.
GERMAN, Patent No 1,054,527.
Dept of Comm
Patent Office

Relationship Between the Textures of 2.25% Cr - 1% Mo Steels and Their Metallurgical Elements, by J. Hoznek.
HUNGARIAN, per, Koh. Lapok, No 10, 1965, pp 443-447.
BISI 5279

Resistance to Corrosion at Elevated Temperatures. ITALIAN, per, Acciaio Inossid., Vol 32, Oct/Nov/Dec, 1965, pp 107-112.
*BISI 5521

Influence of the Heating Programme on Product Quality With an Experimental Coke Oven, by M. Castelli, L. Palumbo.
ITALIAN, Paper B.9 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5476

Study of Bright Tin Coating: 5 - Crystal Structure of Bright Tin Electrodeposits, by N. Dohi.
JAPANESE, per, Journal of the Metal Finishing Society of Japan, Vol 16, No 7, 1965, pp 293-299.
BISI 4825

The State and Stability of Oxide Film on the Surface of Electroplated Tin Plate, by T. Oyama.
JAPANESE, per, Kinzoku Hyomen Gyutsu, Vol 17, No 1, 1966, pp 8-13.
*BISI 5524

Application of the Gas Chromatography Process to the Petroleum Acetylene Plant, by T. Sogawa and K. Nishiguchi.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 67, No 11, 1964, pp 1794-1798.
Chem Trans Sv 2545

Scientific
Materials (Contd)

Investigation of Rolling Oils and Rolling Oil Emulsions in Cold Rolling Experiments. by E. Tsuji, et al.
JAPANESE, per, National Research Institute for Metals, Vol IV, No 3, 1962, pp 135-142.
Chem Tran Sv No 2577

Studies on Al-U Alloys, by N. Mitamura, JAPANESE, per, Nihon Genshiryoku Gakkai Shi, Vol V, NO 6, 1963, pp 467-475.
NLL 4616.62S (NSJ-Tr-6)

Quantitative Spectrographic Determination of Traces of Boron in Plain Carbon Steel and Low Alloy Steel, by T. Kawaguchi, et al.
JAPANESE, per, Nippon Kinzoku, Vol 28, No 11, 1964, pp 759-763.
*BISI 5548

Studies on Al - U Alloys, by Mitamura, Noritsugu, Maruya, et al. 22 pp.
JAPANESE, per, Nippon Kogyo Kaishi, Vol 79, 1963, pp 467-475.
AEC NSJ-tr-6

Electrodeposited Lead Dioxide Electrodes for Electrolysis,
JAPANESE, Patent No 40-17445, 9 Aug 1965, 6 p.
Aifu Kogyo Corp.
Chem Trans Sv 2076

The Removal of Scale from Wire, by N. Kakimi, M. Fujita.
JAPANESE, per, Sum. Met., Vol 18, Jan 1966, pp 35-40.
BISI 5312

Relations Between Sonic Properties of Stopper Heads and Results of Their Practical Use, by H. Yoshida, et al.
JAPANESE, per, Taikabutsu, Vol 83, Dec 1964, pp 270-271.
BISI 5333

Structure of Oxygen Jet Emerging From a Laval Nozzle Part II Kinetics of Blowing Reactions in BOF, by K. Kawakami.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, pp 708-711.
HB 6954

Scientific
Materials (Contd)

Operation of Blowing Trials, Part III Kinetics of Blowing Reactions in BOF, by K. Kawakami, T. Jugii.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 711-713
HB 7020

Kinetics of Oxidation Reactions in BOF Bath. Part IV Kinetics of Blowing Reactions in BOF, by K. Kawakami.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 714-717.
HB 7021

Study of Deoxidation: I - Rising Velocity of Deoxidation Products in Static Iron Bath, by M. Kawai, S. Kobayashi.
JAPANESE, per, Tetsu to Hagane, Vol 52, No 4, 1966, pp 546-549.
BISI 5118

Study of Deoxidation: II - Rising Velocity of Al_2O_3 Particles in Static Iron Bath, by M. Kawai, et al.
JAPANESE, per, Tetsu to Hagane, Vol 52, No 4, 1966, pp 549-551.
BISI 5119

Polyurethane Elastic Fibers, by T. Higashi, JAPANESE, per, Yuki Gosei Kagaku Kyokai Shi, Vol XXVIII, No 3, 1963, pp 696-703.
NLL 5828.4F (5907)

Freight-Handling Equipment for Warehouse Operations State of the Art and Prospects Part I, by Zdzislaw Dudzinski,
POLISH, per, Gospodarka Materialowa, No 10, May 1966,
*ACSI J-2026
ID 2204012267

The Problem of Supplying the Building Industry with Artificial Aggregate, by J. Gren,
POLISH, per, Gospodarka Materialowa, No 19, 1966, pp 672-674.
*ACSI J-2040
ID 2204013467

Compression Rings,
POLISH, per, Horyzonty Techniki, No 10, 1966, pp 6-8, 23.
ACSI J-1699
ID 2204004867

Scientific
Materials (Contd)

Controlled Desulphurisation of Steel in the Open-Hearth Furnace, by K. Mamro, T. Mazanek. POLISH, per, Hutnik, Vol 33, Mar 1966, pp 77-82.
*BISI 5313

Assessing the Quality of Blast Furnace Coke, by F. Byrtus. POLISH, Paper C.8 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5479

Analysis of Crookedness Parameters in Bore-Holes, by K. Mischke. POLISH, per, Prace Inst. Naft., No 75, 1963, pp 3-15.
ATS PJ-4532

Production and Use of Ferro-Nickel in Brazil, by E. Langer. PORTUGUESE, per, Bol. ABM, Vol 20, Sep 1964, pp 511-529.
BISI 5083

The Importance of Metallic Molybdenum and of Various Molybdenum-Based Products in Modern Technology, 19 pp. RUMANIAN, per, Buletinul Stiintific Al Institutului Politehnic Din Cluj, No 7, 1964, pp 169-180. P100070067
FTD TT 65-835

Pressing and Sintering Properties of I.C.P. Type Molybdenum Powders, 9 pp. RUMANIAN, per, Buletinul Stiintific Al Institutului Politehnic Din Cluj, No 7, 1964 pp 213-221. P100070067
FTD TT 65-835

Diffusion of Molybdenum From the Powder State on Metallic Surfaces, 5 pp. RUMANIAN, per, Buletinul Stiintific Al Institutului Politehnic Din Cluj, No 7, 1964, pp 231-236. P100070067
FTD TT 65-835

Influence of the Degree of Unitary Strain on the Nonuniformity of Plastic Strain During Forging Upsetting, by V. Popescu. RUMANIAN, per, Metallurgia, No 9, 1965, pp 471-474.
*FTD-HT-23-621-67

Scientific
Materials (Contd)

Macroetching of Steel With Acid Mixtures, by L. Birescu, et al. RUMANIAN, per, Metallurgia, Vol 18, No 11, 1966, pp 634-636.
HB 7112

Spectrographic Determination of Aluminium in Plain Carbon Steels, by V. Raszillier. RUMANIAN, per, Metallurgia, Vol 18, No 11, 1966, pp 637.
HB 7113

Radiometric Device for Determination of the Stockline in the Cupola, by Th. Dumitrescu, et al. RUMANIAN, per, Metallurgia, Vol 18, No 12, 1966, pp 682-684.
HB 7111

Treatment of Moulds and Coating of Olivine Sand Moulds, by T. Malmberg. SWEDISH, per, Gjuteriet, Jun 1966, pp 87-100.
*BISI 5459

Mathematical Sciences

Iteration Method in Problems of Approximating Function of Finite Numbers of Observations, by B. M. Litvakov. RUSSIAN, per, Avtomatika i Telemekhanika, No 4, 1966, pp 104-113.
*NASA TT F-10,933

Determination of the Regularity of an Automation by Its Canonical Equations, by B. M. Kloss and V. A. Malyshev, 7 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 172, No 3, 1967, pp. 543-546.
JPRS 40280

The Fick Equation of Diffusion, by I. R. Krichevskiy. RUSSIAN, per, Inzherno-Fiz-Zhur, Vol V, No 2, 1962, pp 101-104.
*NASA TT F-10917

Error-Correcting Codes for Data Transmission and Processing, by Yu. G. Zarenin. RUSSIAN, bk, Korrektiruyushchiye Kody dlya Peredachi i Pererabotki Informatsii, 1965, 170 pp.
*FTD-HT-23-609-67

Scientific
Mathematical Sciences (Contd)

Application of the Method of Splitting Multi-dimensional Singular Boundary Value Problems, by I. M. Glazman,
RUSSIAN, per, Matematicheskiy Sbornik, Vol XXXV, No 77, pp 231-246, 1954.
NLL RTS 2579
(On Loan or Purchase)

A Digital Correlation Analyzer, 10 pp.
RUSSIAN, per, Sbornik Vojenske Akademii
A. Zapotochkeho Vyznamenane Radem Republiky,
Ser B, No 4, 1962, pp 107-113. P100089567
FTD-TT-65-1499

Statistical Methods in Planning Extremal Experiments, by V. V. Nalimov.
RUSSIAN, bk, Statisticheskiye Metody Planirovaniya Ekstremal'nykh Eksperimentov, 1965, 338 pp.
*FTD-HT-23-660-67

Transmission of Digital Information Inphase Difference Modulation of Arbitrary Multiplicity, by S. I. Samoylenko.
RUSSIAN, per, Trudy Inst Problem Peredachi Informatsii. Opoznanie Obrazov. Teoriya Peredachi Informatsii, Ak Nauk SSSR, 1965, pp 123-128.
*FTD-HT-23-653-67

Mathematical Conditions of Physical Feasibility in Invariant Automatic and Gyroscopic Systems, by S. A. Babushkin, 33pp.
RUSSIAN, per, Trudy Teoriya Invariantnosti v Sistemakh Avtomaticheskogo Upravleniya Vtorogo Vsesoyuznogo Sovetshchaniya, Sostoyavshegosya v Kiyevе, 29 May-1 Jun 1962, pp 65-83, 1964. P100102267
FTD HT 65-565

An Algorithm of Idea Separation With the Aid of a Syntax Table, by Ye. A. Zhogolev.
RUSSIAN, per, Zhur Vychis Matemat i Nat Fiziki, Vol V, No 4, 1965, pp 689-698.
*FTD-HT-67-70

Analysis of Mathematical Methods for the Determination of Coking Times in Large Coke-Oven Batteries, by L. Hochman.
CZECH, per, Paliva, Vol 46, No 3, 1966, pp 90-93.
*BISI 5454

No-Contact Distance Measurement by Means of Statistical Test Signals, by F. H. Iango.
GERMAN, per, Nissen-Steuern-Regeln, No 12, 1964, pp 403-407.
*FTD-HT-23-640-67

Scientific
Mathematical Sciences (Contd)

Arithmetic Operations With Integers of Arbitrary Sign in a System of Residual Classes & Their Circuit Realization, by Yu. P. Sobornikov.
UKRAINIAN, per, Avtomatyka, No 2, 1966, pp 17-26.
*FTD-HT-23-580-67

Exact Solutions of the Boundary Layer Equations for Pseudo-Plastic Fluids on a Porous Flat Plate Near the Critical Point, by B. Berkovskiy.
RUSSIAN, per, Trudy Inst Teplo-i-Massopobmena, Ak Nauk BSSR, 1965, pp 151-163.
*FTD-HT-23-587-67

Electronic Data Processing and Cybernetics, 88 pp.
GERMAN, per, Elektronische Informationsverarbeitung und Kybernetik, Vol I, No 1, 1965, 67 pp.
FTD-HT-66-463

Mechanical, Industrial, Civil & Marine Engineering

Automation of Aircraft and Rocket Power Plants, by A. A. Shevyakov.
RUSSIAN, bk, Avtomatika Aviatsionnykh i Raketnykh Silovykh Ustanovok, 1965, pp 349-404; 405-489; 510-539.
*FTD-HT-24-10-67

Guaranteed Stability of Fill in a Swamp, by M. A. Shaposhnikov,
RUSSIAN, per, Avtomobil'nyye Dorogi, No 6, 1966, pp 5.
*ACSI J-2029
ID 2204012567

To Perfect Construction and Technology of Building Reinforced-Concrete Airfields, by F. F. Kostandi and E. N. Smirnov,
RUSSIAN, per, Avtomobil'nyye Dorogi, No 6, 1966, pp 8.
*ACSI J-2029
ID 2204012567

Synthetic Materials for Road Layer Concrete, by G. K. Syun'i and V. N. Kovalevich,
RUSSIAN, per, Avtomobil'nyye Dorogi, No 6, 1966, pp 14.
*ACSI J-2029
ID 2204012567

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Metal Savings in the Metal Consuming Industrial Branches, by V. N. Zimin and D. I. Popov,
RUSSIAN, per, Ekonomiya Metallov, No 46, 1966, pp 98-135.
ACSI J-1791
ID 2204008667

Properties of the Middle Surface of an Axial Hydroturbine Blade, by V. Ya. Kantor,
RUSSIAN, per, Energomashinsotroenie, No 3, 1965, pp 41-43.
*CFSTI TT 67-59021

Calculation and Design of Mechanical Injector, by Ya. P. Storozhuk.
RUSSIAN, per, Energomashinostroyeniye, No 3, 1966, pp 8-11.
*FTD-MT-67-28

Surface Oxidation and Phase Transformations in Ni-Base Heat-Resisting Alloys in the Stressed Condition, by N. I. Blok, et al,
RUSSIAN, rpt, Fazovyi Sostav. Strukt. i Svoist. Legir. Stal. i Mash., 1965, pp 39-47.
NLL 9022.4 (66/109)

Stress Reserve Nomogram, by F. I. Aleshkin,
RUSSIAN, per, Fiziko-Khim. Mekhan. Mater., Vol I, No 2, 1965, pp 151-161.
NLL 5828.4 1965 (5812)

The Origin of Internal Stresses in Electro-deposited Metals, by M. Y. Popereka,
RUSSIAN, per, Fiz. Metal. i Metallov., Vol XX, No 5, 1965, pp 753-762.
NLL 9022.4 (66/67)

Use of Excavator with Shaped Scoop, by M. A. Timchenko and A. A. Martynov,
RUSSIAN, per, Gidrotekhnika i Melioratsiya, No 5, 1966, pp 50-53.
*ACSI J-2032
ID 2204012867

Soviet Walking Draglines, by A. I. Safronov, 6 pp.
RUSSIAN, per, Gidrotekhnicheskoye Stroitel'stvo, No. 2, Feb 1967, pp. 44-46.
JPRS 40377

Modelling Underground Fires, by V. M. Zhadan,
RUSSIAN, per, Gornospasatel'noe Delo, No 5, 1962, pp 19-31.
NLL 8313.4B 1966 (1584)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The Lattice Constants of Limited Solid Solutions of Some Elements in Nickel, by I. I. Kornilov and A. Ya. Snetkov,
RUSSIAN, per, Issled. po Zharop. Splav. AN SSSR Inst. Met. im. A. A. Baikova, Vol VII, 1961, pp 106-111.
NLL 9022.4B 1966 (65/358)

Mass Spectroscopic Examination of Metal and Alloy Vapour Pressure, by Yu. N. Lyubotov,
RUSSIAN, per, Issled. po Zharop. Splav. Ak Nauk SSSR, Inst. Metal., Vol VIII, 1962, pp 205-210.
NLL RTS 3240
(On Loan or Purchase)

Correlation Between the Energies of Activation of Creep and Diffusion in Heat-Resisting Alloys, by A. Ya. Shinyayev,
RUSSIAN, per, Issled. po Zharop. Slav. Inst. Met. A. A. Baikova AN SSSR, Vol X, 1963, pp 38-42.
NLL 9022.4B 1966 (65/360)

An Analytical Method for Determining the Bottom-Hole Temperature While Circulating Fluid in a Well Being Drilled, by G. G. Gabuzov,
RUSSIAN, per, Izv. Ak nauk Azerb. SSR. Ser. Geol. Geograf. Nauk, No 1, 1964, pp 63-69.
ATS RJ-4547

The Coefficient of Power Transmission to the Bottom of the Hole in Rotary and Trubine Drilling with Jet Bits, by S. M. Kuliev, et al,
RUSSIAN, per, Izv. Ak Nauk Azerb. SSSR, Ser Geol. Geograf. Nauk, No 2, 1964, pp 69-76.
ATS RJ-4536

Determining the Optimum Shape of a Three-Dimensional Body With Friction Taken Into Account, by A. L. Gonor.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh, No 4, 1965, pp 24-30.
*FTD-MT-23-648-67

Flow of Viscous Liquid Near Angular Points of Contour of Solid Body, by G. I. Naykapar, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 3, 1964, pp 16-20. P100091667
FTD-MT-65-322

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Determination of Coefficients of Rotational Derivatives in Wind Tunnels, by S. M. Belotserkovskiy, B. K. Skripach, 14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 3, 1964, pp 21-28. P100091667
FTD-MT-65-322

Damping of Self-Excited Vibrations of Rotors on Sliding Bearing, by E. L. Poznyak, RUSSIAN, per, Izv. Ak Nauk SSSR - Mekh., No 3, 1965, pp 68-76.
NLL 9022.03 1965 (3872)

Effect of Random Distribution of Impermeable Sections on the Average Hydraulic Conductivity of a Formation, by V. V. Skvortsov, RUSSIAN, per, Izv. Ak Nauk SSR, Mekh i Mashinostr., No 3, 1964, pp 178-182.
ATS RJ-4495

A Ductility Criterion for Metalworking, by V. A. Skudnov and L. D. Sokolov, RUSSIAN, per, Izv. AN SSSR Metall., No 4, 1965, pp 117-125.
NLL 9022.4B 1966 (65.378)

Structure of the Region of Cavitation by K. K. Shal'nev.
RUSSIAN, per, Iz An SSSR, Otdeleniye Tekhnicheskikh Nauk, No 5, 1954, pp 119-126.
*FTD MT 65-556

The Possibility of the Simultaneous Formation of Several Fractures in Hydraulic Formation Fracturing, by Yu. V. Zheltov and R. Sh. Kasimov, RUSSIAN, per, Izv. Ak nauk SSSR, Otd. Tekhn. Nauk, mekhan. i Mashinostr., No 6, 1963, pp 85-87.
ATS RJ-4539.

Forces Acting on the Tools in the Cold Rolling of Tubes, by V. I. Sokolovskiy. RUSSIAN, per, Izv. VUZ Chern. Met., Oct 1966, pp 52-61.
BISI 5371

Hydraulic Percussion Drilling as a Means of Reducing the Severity of Deviation in Wells, by L. Craf, et al, RUSSIAN, per, Izv. VUZ Geol. i Razvedka, Vol VII, No 9, 1964, pp 109-113.
ATS RJ-4522

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Fatigue Failure of Rocks, by L. E. Simonyants and B. A. Zhlobinskiy, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol V, No 2, 1962, pp 15-18.
ATS RJ-4555

The Flow of a Compressible Fluid From a Fractured Reservoir into a Well, by R. G. Isayev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VI, No 6, 1963, pp 43-48.
ATS RJ-4488

Stress Conditions at the Bottom of a Well and Determination of the Strength of the Rock at the Bottom, by V. S. Fedorov and V. V. Bulatov, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VI, No 9, 1963, pp 31-35.
ATS RJ-4554

Reason for the Reduction in Paraffin Deposition in Wells Producing with Downhole Centrifugal Electric Pump, by I. T. Mishchenko, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VI, No 10, 1963, pp 47-50.
ATS RJ-4573

The Need of Using an Elastic Compensator in a Drill String, by S. G. Kalinin, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VI, No 12, 1963, pp 23-28.
ATS RJ-4553

The Unsteady-State Flow of a Fluid in a Fractured Reservoir, by R. G. Isayev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 7, 1964, pp 71-75.
ATS RJ-4500

Calculation of the Water-Free Production Period in Oil Wells with Bottom Water, by A. P. Telkov and I. B. Burtsev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 8, 1964, pp 47-52.
ATS RJ-4548

Derivation of Simple Approximate Formulas Characterizing the Performance of an Enlarged Well Operating at Constant Bottom-Hole Pressure, by V. E. Vlyushin and O. N. Kharin, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 8, 1964, pp 83-87.
ATS RJ-4485

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Filtration Properties of Drilling Muds, by
O. K. Angelopulo and L. K. Mukhin,
RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII,
No 11, 1964, pp 20-24.
ATS RJ-4576

Forging Large Forgings,
RUSSIAN, bk, Kovka Krupnykh Pokovok, 1965,
pp 28-36, 260-289.
*FTD-HT-67-491

The Structure and Resistance to Inter-
Crystalline Corrosion of Two-Phase Steels
of Cr21Ni5 Type, by M. Vylicky and
J. Voboril,
RUSSIAN, per, Kovove Materialy, Vol III,
No 3, 1965, pp 232-247.
NLL 5828.4F 1966 (5874)

Flashless Dye Forging of Cylindrical Straight
Tooth Gear Wheels with Tooth Profiles, by
R. P. Kolesnikov,
RUSSIAN, per, Kuznechno Shtampovnoye
Proizvodstvo, No 11, 1965.
ACSI J-1826
ID 2204009567

Calculating Parameters for Ripsawing, by
A. Bershadskiy,
RUSSIAN, per, Lesnaya Promy., No 12, 1964,
pp 8-14.
NLL 9022.093 (7748)

Common Requirements for Self-Contained
Breathing Apparatus for Mine Rescue Oper-
ations,
RUSSIAN, rpt, Materialy k Konstruirovaniyu
i Ispytaniyu Zashchitnykh Dykhatel'nykh
Priborov, 1965, pp 157-167.
NLL 8313.4 (5293)

Investigation of Mechanical Parameters in
Hot Rolling, by O. I. Kachainik.
RUSSIAN, per, Mechanical Working of Light
Alloys, No 62, 1965, pp 91-100.
*FTD-MT-24-93-67

The Pneumatic Transportation of Waste, by
I. A. Blinov and I. I. Markarov,
RUSSIAN, per, Mekhanizatsiya i Avtomatizat-
siya Proizvodstva, No 6, 1964, pp 22.
NLL R15 2850 (On Loan or Purchase)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

A Study of the Parameters and Laws of
Technological Processes by Means of Models,
by Yu. Ye. Yefroymovich.
RUSSIAN, rpt, Metody i Sredstva Resheniya
Krayevykh Zadach, 1964, pp 329-346.
*FTD-HT-23-642-67

Electrical Dedusting of the Mine Air, by
V. I. Uskov,
RUSSIAN, rpt, Mine Air and Gas Dynamics and
Safety of Mining Operations, 1964,
pp 163-170.
NLL 8313.4 B (5295)

Performance Analysis of the FEKP-3 Photo-
electric Dust Counter, by V. V. Kudryashov,
RUSSIAN, rpt, Mine Air and Gas Dynamics and
Safety of Mining Operations, 1964, pp 179-87.
NLL 8313.4 B (5294)

The Basic Laws Governing the Process of
Self-Ignition, by V. S. Veselovskiy,
RUSSIAN, rpt, Mine Air and Gas Dynamics and
Safety of Mining Operations, 1964,
pp 188-195.
NLL 8313.4 B (5297)

The SKG-100 Crawler Crane, by Khodov,
Moyzhes,
RUSSIAN, per, Montazhnyye i Spetsial'nyye
Raboty v Stritel'stve, No 2, 1967, pp 16-19.
*ACSI J-2283
ID 2204016467

The Determination of Stresses and Deformation
Near a Very Fine Crack, by V. V. Panasyuk,
RUSSIAN, per, Nauchn. Zap. Inst. Mash. i
Avtom., Vol VII, 1960, pp 114-127.
NLL 5207B 1966 (1089)

Determination of the Hydromechanical Pres-
sure on the Bottom of the Hole During
Round Trips, by N. A. Gukasov, and
A. M. Pirverdyan,
RUSSIAN, per, Neft. Khoz., Vol XXXVII,
No 8, 1959, pp 25-28.
ATS RJ-4544

Processing of Influx Curves Obtained by Using
a Formation Tester, by G. V. Shcherbakov,
RUSSIAN, per, Neft. Khoz., Vol XL, No 3,
1962, pp 44-46.
ATS RJ-4503

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Field Tests of Electrical Bottom-Hole Formation Heating in Fields of Bashkiria, by Ya. A. Mustayev, RUSSIAN, per, Neft. Khoz., Vol XLI, No 4, 1963, pp 64-67.
ATS RJ-4471

An Investigation of the Dynamics of the Movement of a Drill String in a Slant Hole, by M. P. Gulizade, et al, RUSSIAN, per, Neft i Gaz, Vol VII, No 1, 1964, pp 23-28.
ATS RJ-4531

Bulk Modulus and Elastic Capacity of Accumulations in Fractured Reservoirs, by V. N. Maidebor, et al, RUSSIAN, per, Neft. Khoz., Vol XLII, No 1, 1964, pp 29-31.
ATS RJ-4480

An Investigation of Heating of the Bottom-Hole Zone of a Well with Influx of a Fluid, by A. B. Sheinman, et al, RUSSIAN, per, Neft. Khoz., Vol XLII, No 1, 1964, pp 37-42.
ATS RJ-4466

Increasing the Operating Economy of Centrifugal Pumps in Pumping High-Viscosity Crudes and Residual Fuels Oils Through Long-Distance Pipe Lines, by S. A. Gross, RUSSIAN, per, Neft Khoz., Vol XLII, No 1, 1964, pp 57-63.
ATS RJ4562

An Experimental Investigation of the Torque Characteristics of Normal and Stepped Three-Way Bits, by S. M. Kuliev, et al, RUSSIAN, per, Neft. Khoz., Vol XLII, No 5, 1964, pp 7-11.
ATS RJ-4535

Regarding V. Yu. Kim's Article, "Method for Calculating Cumulative Production in the Case of Known Bottom-Hole Pressure", by G. P. Guseinov and D. G. Almamedov, RUSSIAN, per, Neft Khoz., Vol XLII, No 5, 1964, pp 58-59.
ATS RJ-4577

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Automatic Control of the Rotational Speed of the Turbodrill Shaft, by B. A. Grachev, RUSSIAN, Neft. Khoz., Vol XLII, No 6, 1964, pp 8-11.
ATS RJ-4541

Drilling Wells of Reduced Hole Diameters Utilizing a Trubotachometer, by R. A. Sumbatov, et al, RUSSIAN, per, Neft. Khoz., Vol XLII, No 6, 1964, pp 12-17.
ATS RJ-4528

Increase in Oil Recovery From Oil Sands by Injection of Carbonated Water, by K. I. Kovalenko, et al, RUSSIAN, per, Neft Khoz., No 11, 1964, pp 6-9.
ATS RJ-4578

A New Method for Drilling Oil Wells Using Explosives, by E. M. Gref, RUSSIAN, per, Neftyanik, Vol VIII, No 8, 1963, pp 30-31.
ATS RJ-4525

Experimental Industrial Desalination Plant for Installations of the Central Asia - Center Gas Transmission Line, by I. I. Malinovskiy. 9 pp. RUSSIAN, bk, Opytno-Promyshlennaya Oprezhitel'naya Stantsiya Dlya Ob'ektov Gazoprovoda Srednyaya Aziyatsentr. Moscow, 1966.
*AEC

The Use of Plastics for Water Shut-Off in Oil Wells, by E. N. Umrikhina, et al, RUSSIAN, per, Plast. Massy, No 8, 1964, pp 36-40.
ATS RJ-4513

Investigation of the Wetting of Diamond and Graphite by Molten Metals and Alloys. IV. Effect of the Temperature on the Adhesion of Metals which are inert to Carbon, by Yu. V. Naidich, G. A. Kolesnichenko. RUSSIAN, per, Poroshkovaya Metallurgiya, Akad. Nauk Ukrainskoy SSR, Vol 6, No 2, 1966, pp 97-99.
Chem Trans Sv 2785

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Problems in the General Theory of Elastic Stability, by V. V. Bolotin,
RUSSIAN, per, Prikladnaya Mat. I. Mekh.,
Vol XX, No 5, 1956, pp 561-577.
NLL RTS 3560
(On Loan or Purchase)

Propagation of an Arbitrarily Oriented Rectilinear Crack During Extension of a Plate, by V. V. Panasyuk, et al,
RUSSIAN, per, Prikladnaya Mekhanika Ukr. SSR, Vol I, No 2, 1965, pp 48-55.
NLL 6015.49F 1966 (402)

Stability and Vibration of Rectangular Sandwich Plates With Large Cutouts, by G. P. Zinenko.
RUSSIAN, per, Prikl Mekh, Vol II, No 8, 1966, pp 59-63.
*FTD-HT-67-343

Designing Cylindrical Stringer-Stiffened Shells of Minimum Weight Under Axial Compression, by A. S. Pal'chevskiy.
RUSSIAN, per, Prikl Mekh, Vol II, No 9, 1966, pp 37-43.
*FTD-HT-67-344

Characteristics of Experiments With Automats, by V. A. Dushskiy, 10 pp.
RUSSIAN, per, Problemy Kibernetiki, No 11, 1964, pp 257-262. P100091067
FTD-HT-66-242

Forced Vibrations in the Coaxial Rotors System Allowing for the Gyroscopic Effect of the Discs, by V. O. Bauer,
RUSSIAN, per, Prochnost i Dinamika Aviat-sionnykh Dvigatelay, Sbornik Statey, Mashin-ostroyeniya, No 2, 1965, pp 201-254.
ACSI J-1606
ID 2204002467

Design of an Experimental Flash-Evaporation Desalination Plant With a Capacity of 3 Thousand Hours (?) of Distillate, by S. N. Filippov. 3 pp.
RUSSIAN, bk, Proekt Opytnoi Opresnitel'noi Ustanovki Mgnovennogo Ispareniya Proizvoditel'nost'yu 3 T/Chas Distillyata, Moscow, 1966.
*AEC

Fatigue - Basic Design Conditions, by A. D. Sergievski,
RUSSIAN, per, Proektirovanie Svarki Kons-truktsiy, 1965, pp 229-310.
NLL RTS 3224
(On Loan or Purchase)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Cbntd)

Production of Honeycomb Constructions, by V. Ye. Bersudskiy, V. N. Krysin, et al. 235 p.
RUSSIAN, bk, Proizvodstvo Sotovykh Konstruktsiy, 1966, pp 1-282.
FTD MT-66-105

Some Relationships for Bottom Hole Breakdown in Wells with Hydraulic Percussion Drilling, by P. G. Stepanenko and A. A. Amanzholov,
RUSSIAN, per, Razvedka i Okhrana Nedr, Vol XXIX, No 2, 1963, pp 52-54.
ATS RJ-4520

Investigation of the Technology of Vibratory-Impact Drilling, by D. N. Bashkatov, et al,
RUSSIAN, per, Razvedka i Okhrana Nedr, Vol XXX, No 5, 1964, pp 22-25.
ATS RJ-4519

Technical and Economic Data on the Drilling of Exploratory and Wildcat Wells for Oil and Gas with Reduced and Small Diameters, by N. M. Morozov,
RUSSIAN, per, Razvedka i Okhrana Nedr, Vol XXX, No 5, 1964, pp 27-30.
ATS RJ-4527

Perturbation of Magnetic Surfaces, by L. S. Solovov and V. D. Shafranov,
RUSSIAN, rpt, Report IAE-1150, 1966, pp 1-6.
NLL 9091.9F (CTO/317)

Adopting the Manufacture of Bent Rolling Profiles of Finned Plate Type During Calibration With Residue of Wave Preparation, by I. S. Trishevskiy, V. V. Klepanda, et al, 13 pp.
RUSSIAN, per, Sbornik Trudov, Institut Metallov, No 9, 1964, pp 240-251.
P100090367
FTD HT 66-361

Extraction of Copper from Sulphide Ores, by A. N. Gonglishvili,
RUSSIAN, per, Soobshcheniya Ak Nauk Gruz. SSR, Vol XXIX, No 4, 1962, pp 405-412.
NLL RTS 3609
(On Loan or Purchase)

The Main Trends in Mechanization in the New Five-Year Plan, by G. V. Zhdanovich,
RUSSIAN, per, Stroitelstvo Truboprovodov, No 6, 1966, pp 3-8.
ACSI J-1883
ID 2204011067

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Better Production and Use of Silicate Materials in Construction Needed, by I. Blinov, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 27 Jan 1967, pp. 2-3.
JPRS 40377

Advances in Integral Unit Home Construction, by P. Bronnikov, 7 pp.
RUSSIAN, per, Stroitel'naya Gazeta, 29 Jan 1967, p. 2.
JPRS 40377

The Soundproofing of Double-Walled Ship's Structures, by I. I. Bogolepov, 11 pp.
RUSSIAN, per, Sudostroyeniye, No. 11, Nov 1966, pp. 10-14.
JPRS 40233

Reducing Noise on Series Diesels on the "Zaporozh'ye" Type, by M. I. Rzhavskiy, 8 pp.
RUSSIAN, per, Sudostroyeniye, No. 11, Nov 1966, pp. 14-18.
JPRS 39876

A Study of the Methods of Totalling Discomfort Glare, by M. M. Epaneshnikov,
RUSSIAN, per, Svetotekhnika, Vol XI, No 6, 1965, pp 1-5.
NLL 5196 (1335)

A Talkative Robot, by Yu. Filatov, 7 pp.
RUSSIAN, per, Tekhnika Molodezhi, No. 2, 1967, pp. 3-4.
JPRS 40384

Investigation and Computation of Noise From Power Gas Turbine Compressors, by Ye. Ya. Yudin,
RUSSIAN, per, Teploenergetika, Vol XIII, No 1,3, 1966, pp 70-74.
*ACSI J-2216
ID 2204015867

Cyclic Creep in Unevenly Heated Cylinders, by B. F. Shorr,
RUSSIAN, per, Teploveye Napryazh v Elementakh Dumak Konstruktsiy, Vol IV, 1964, pp 256-265.
NLL RTS 3409
(On Loan or Purchase)

Peat in Building Construction, Chapter 1, Ch. 3. Section 3 and References, by F. P. Vinokurov, et al,
RUSSIAN, bk, Torf v Stroitel'stve, pp 17-75, 151-160, 234-239.
NLL RTS 2465 (On Loan or Purchase)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Results of Tests of a Universal Cornpicker Combine "Kersonets-7", by A. P. Solomykin and Z. I. Margolin,
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 9, 1966, pp 15-18.
ACSI J-1310
ID 2204058366

The UM'S-2 Machine for Full-Width Compaction of Fills, by M. B. Bel'kind and P. D. Strel'nikov,
RUSSIAN, per, Transportnoye Stroitel'stvo, No 5, 1966.
ACSI J-1954
ID 2204011567

The Buckling Stability of a Strut with Rectangular Cross Section Under Creep Conditions, by V. P. Kapranov,
RUSSIAN, per, Trudy Dnepropetr. Khim. Tekh. in-ta, No 15, 1961, pp 59-64.
NLL RTS 3137
(On Loan or Purchase)

Methods of Investigating Fatigue Strenght Under Conditions of Complex Stresses, by I. N. Shkanov,
RUSSIAN, per, Trudy Kazanskogo Aviatsionnogo Inst., No 81, 1963, pp 81-90.
NLL RTS 3139
(On Loan or Purchase)

The Suppression of Airborne dust in Manless Coal-getting, by M. S. Chervinskiy and V. P. Bobritskiy,
RUSSIAN, per, Trudy MakNII, Vol XVII, 1965, pp 181-194.
NLL 8313.4 (5347)

Conditions for Efficient and Safe Firing with Water Stemming, by F. M. Galadzhly and V. I. Stikachev,
RUSSIAN, per, Trudy MakNII, Vol XVII, 1965, pp 271-281.
NLL 8313.4 (5351)

Effect of the Deformation of Solid Coal on the Detonation Characteristics of Electric Detonators for Multi-shotfiring of Charges in Shotholes, by I. I. Opov,
RUSSIAN, per, Trudy MakNII, Vol XVII, 1965, pp 285-296.
NLL 8313.4 (5352)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Flow in a Reservoir with Impermeable Top and Bottom Divided by a Low-Permeability Dam, by I. A. Charnyi,
RUSSIAN, per, Tr. Mosk. Inst. Neftikhim. i Gaz. Prom., No 33, 1961, pp 122-130.
ATS RJ-4495

Unsteady-State of Fluids in a Nonuniform Reservoir Having a Low-Permeability Dam, by M. A. Gusein-Zade and Huan K'oi-jen,
RUSSIAN, per, Tr. Mosk. Inst. Neftikhim. i Gaz. Prom., No 33, 1961, pp 296-304.
ATS RJ-4496

Effect of Surface-Layer Quality on the Useful Life of Roller Bearings, by L. G. Kuklin, 13 pp.
RUSSIAN, per, Trudy Sverdlovsk Ural'skiy Politeknicheskii Institut, No 129, 1963, pp 15-25. P100066467
FTD TT 65-1411

Study of Stress-Rupture Strength of Heat-Resistant Steels in the Complex Stressed State, by I. I. Trumin and G. A. Shaban,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Iss In'ta Tekhnologii i Mashin, No 3, 1962, pp 42-56.
NLL RTS 2741 (On Loan or Purchase)

The Friction Surface of Plastics Under Large Magnification, by Sh. M. Bilik and Yu. B. Yasson,
RUSSIAN, per, Tr. Vses. Nauchno-Issled. Inst. Zhelez. Transp., No 267, 1963, pp 5-11.
NLL 9022.84B (1304)

Increasing the Strength of Raw Granules, by L. M. Sulimenko, et al,
RUSSIAN, per, Tsement, No 3, 1966, pp 3-4.
*ACSI J-2028
ID 2204012467

The Present Status of Hydraulic Transport in the Coal Industry, by A. O. Spivakovskiy and A. E. Smoldyrev,
RUSSIAN, per, Ugol, Vol XXXIX, No 5, 1964, pp 42-48.
ATS RJ-4568

Explosive-Driven Magnetic Generators, by A. D. Sakharov.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol 88, 1966, pp 725-734. P911049267
AEC UCRL-tr-10078

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Results of Tests of Electromagnetic Induction Pumps for the Pumping of Sodium and Mercury, by N. I. Ivashchenko, I. S. Kudryavtsev, et al.
RUSSIAN, Voprosy Magnitov Gidrodinamiki Soveshchaniye po Teoreticheskoy i Prikladnoy Magnitnoy Gidrodinamike, 3d Riga 1962, Doklady Soveshchaniya Vol III, 1963, pp 195-201.
*FTD HT 23-670-67

The Potential of Building Small Desalinators for use in Desert Areas, by M. V. Dolodiy, et al. 9 pp.
RUSSIAN, bk, Vozmozhnosti Sozdaniya Malykh Opresnitelei Dlya Vodosnabzheniya v Pustyne, Moscow, 1966.
*AEC

Heat Exchange in the Boiling of Mercury and Magnesium Amalgam, by M. I. Korneey.
RUSSIAN, per, Zhukie Metal, Sbornik States, 1963, pp 220-244.
*FTD HT 23-667-67

An Automatic Balance for the Determination of Changes of Weight, by O. G. Katsnelson,
RUSSIAN, Patent No 163,387.
NLL RTS 3215
(On Loan or Purchase)

Method of Production of Urea-Formaldehyde Resins, by R. Z. Temkina, et al,
RUSSIAN, Patent No 169,781.
NLL 9022.84 B (1314)

Method of Production of Phenol-Formaldehyde Resins, by E. N. Kan'kovskaya, et al,
RUSSIAN, Patent No 170,655.
NLL 9022.84 B (1313)

Cophased Array With Active Reflector, by V. D. Kuznetsov.
RUSSIAN, per, Patent No 178866.
*FTD-HT-23-575-67

Water-Vapor Transfer and Water Balance Over Eastern China, by Hsu Shu-Ying, 30 pp.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXIX, No 1, 1958, pp 33-42. P922094967
AFCLL Eam-65-29

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Faults in the Operation of Soaking Pits, by J. Tomas.
CZECH, per, Hutn. Listy, Vol 21, No 5, 1966, pp 329-333.
*BISI 5458

Graphic Computation of Repairs of Machinery and Equipment, by Josef Prokes,
CZECH, per, Inzenyrske Stavby, No 11, 1966, pp 188-192.
*ACSI J-2037
ID 2204013167

The Ascertainment of the Quality of Road Surfaces, by K. K. Kucera,
CZECH, per, Inzenyrske Stavby, No 11, 1966, pp 468-481.
*ACSI J-2037
ID 2204013167

The Building of Arch and Vault Bridges Made of Reinforced or Plain Concrete Without Using Supporting Structures for Shutters, by P. Dupont,
CZECH, per, Inzenyrske Stavby, No 11, 1966, pp 485-489.
*ACSI J-2037
ID 2204013167

Trends in the Construction of Shovel Bridges, CZECH, per, Inzenyrske Stavby, No 11, 1966, pp 177-182.
*ACSI J-2037
ID 2204013167

Construction Equipment at the 1966 Exhibit at Brno, by V. Matejka,
CZECH, per, Mechanizace, No 5, 1966, pp 105-129.
*ACSI J-2038
ID 2204013267

Analytic Filters of Organic Microfibers and Their use in Determining the Concentration of Aerosols and Dust, by K. Spurny, M. Polydorova. 19 pp
CZECH, per, Pracovní Lékarství, Vol 14, No 8, 1962, pp 369-375.
AEC ORNL-tr 779

The Wilson Transmission Gear Case, by Drahoslav Barak,
CZECH, per, Vojenska Technika, No 10, 1966, pp 17-20.
*ACSI J-2070
ID 2204013667

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The Delta Works, by H. van der Tuin, 20 pp.
DUTCH, per, De Ingenieur, Vol LXXVIII, No 39, 30 September 1966, pp 563-574,
DIA LN 73-67-B

Railway Ferry-Waantali-Stockholm, by Hugo Lehto, 8 pp.
FINNISH, per, Rautatie Liikenne, Vol XXIV, No 6, June 1966, pp 285-291.
DIA LN 51-67-A

Automation of Heavy Plate Mills Automatic Calculation of Screw-Down Programmes, by C. H. Lescot.
FRENCH, per, C.D.S. Circ., No 4, 1966, pp 1037-1043.
BISI 5011

Investigation on Pressductor Failures in Hot Mills, by Danthine.
FRENCH, per, C.D.S. Circ., No 9, 1966, p 1883.
*BISI 5465

The New Girder Train at Differdange, by J. Grainger.
FRENCH, per, C.N.R.M., Sept 1966, pp 75-82.
*BISI 5494

Refractories for the Casting of Steel, by L. Halm.
FRENCH, per, IRSID, Re-Pr-6, 11-15 May 1964, pp 1-40.
BISI 5249

Conversion of Coke Oven Charging to Automatic Control, by M. Meunier, F. Ditte.
FRENCH, Paper B.7 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5475

Oxygen in the Arc Furnace, by J. Colin.
FRENCH, per, Rev Met., Vol 60, Oct 1963, pp 851-854.
*BISI 5455

The Influence of Surface Defects on the Mechanical Properties of Tubes in Type 304 Stainless Steel, by L. de Wilde, J. Dresselaers.
FRENCH, per, Rev. Met., Vol 63, Apr 66, pp 313-318.
*BISI 5488

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The IRSID Machine for Measuring Hardness at Elevated Temperatures, by P. Rabbe, G. Pomey. FRENCH, per, Rev. Met., Vol 63, Sep 1966, pp 719-724.
*BISI 5489

Continuous Weighing of Molten Steel in Ladle During the Casting of Ingot I - Equipment, by G. Haler. FRENCH, per, Rev. Met., No 63, Dec 1966, pp 1005-1018.
*BISI 5463

Continuous Weighing of Molten Steel in Ladle During the Casting of Ingot II - Operational Results, by M. Kaell. FRENCH, per, Rev. Met., Vol 63, Dec 1966, pp 1010-1023.
*BISI 5464

Measurement of Deformation During High Speed Tensile Tests, by L. Joly, D. Francois. FRENCH, per, Rev. Met. Mem. Sci. Vol 63, Dec 1966, pp 1087-1090.
BISI 5437

Remarks on the Doppler Radar Measuring Method for Interior Ballistics Measurements, by G. Schultze. FRENCH, rpt, Technical Note 40/64, Dec 3, 1964, 28 p.
NASA TT F-10,608

New Way of Packaging and Displaying Objects of Identical Size and Shape, by Charles Nicole, 5 pp. FRENCH, Patent, No 794,796.
Dept of Comm
Patent Office

HWN-Klein Manipulator a 201 and a 200, by Hans Walischmiller. GERMAN, bk, P911108067
AEC-ORNL-TR-1484

Investigation of Natural and Artificial Ageing of General Constructional Steels, by W. Felix. GERMAN, per, Arch Eisenh., Vol 36, Jan 1965, pp 35-40.
*BISI 5462

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The Effect of Ore Sequence on Reduction in the Blast Furnace, by H. Schenck. GERMAN, per, Arch Eisenh., Vol 36, May 1965, pp 319-325.
*BISI 5525

Effect of Cold-Working on the Mechanical Properties of Rimming Steel Bars for Concrete Reinforcement after Artificial Ageing, by P. Banerjee, A. Kruger. GERMAN, per, Arch. Eisenh., Vol 37, Aug 1966, pp 639-646.
BISI 5219

Present State of the Hydrodynamic Theory of Rolling, by K. H. Weber. GERMAN, per, Arch Eisenh., Vol 37, Oct 1966, pp 733-794.
*BISI 5469

Extrusion Plant for the Production of Seamless Steel Tubes, by H. H. Groos. GERMAN, per, Bander Bleche, Dec 1966, pp 833-838.
*BISI 5482

Winged Tube Membrane Walls in the Construction of Modern Steam Boilers, by R. Pich. GERMAN, per, Energie, Vol 18, Aug 1966, pp 344-350.
*BISI 5468

Patent Discussions - Blank Cartridge - Disintegrating Projectile, GERMAN, per, Explosivstoffe, No 12, 1966, pp 277-278.
ACSI J-1764
ID 2204006667

Self Loader Crane Systems on Trucks, by J. Takats. GERMAN, per, Hebezeuge und Foerdmittel, No 8, 1966, pp 235-238.
ACSI J-1789
ID 2204008467

Approved Plant-Protection Machines and Equipment, by A. Jeska and S. Koehler. GERMAN, per, Nachrichtenblatt fuer den Deutschen Pflanzenschutzdienst, pp 166-173.
*ACSI J-2075
ID 2204013767

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Operating Experience With Automatic Spectrometers Manufactured by Hilger & Watts, London, for the Examination of Steel Samples From Open-Hearth and Electric Furnace Melting Shops, by H. Burghardt, H. J. Marga.

GERMAN, per, Neue Hutte, Vol 10, Apr 1965, pp 220-223.
BISI 5179

Concentration and Decing of Aqueous Waste, GERMAN, rpt, Nonzentrierung und Trochnung von Flussigen Waste, Work Report for 6th Quarter, 18 pp.

*AEC

The Effect of Coke Particles Size on Blast Furnace Operating Conditions and Operational Data, by H. Wysocki, F. W. Hillnhutter. GERMAN, Paper C.7 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966.

*BISI 5478

Observations on the Grinding of Hard Metal Powders, by H. F. Fischmeister, H. E. Exner. GERMAN, per, Planseeberichte fur Pulver-metallurgie, Vol 13, 1965, pp 178-198.

*BISI 5466

Aerodynamics in the Construction of Industrial Furnaces, by H. Doenecke.

GERMAN, per, Radex Rund., Aug 1966, p 218.
*BISI 5496

Residual Stresses in Helically Welded Pipes, by H. Fuss, W. Hofmann. GERMAN, per, Schweissen Schneiden, Vol 17, Aug 1965, pp 331-342.
BISI 5164

Fatigue Strength of Fillet Welds, by H. Ouchida, A. Nishioka. GERMAN, per, Schweisstechnik, Vol 16, No 4, 1966, pp 150-157.
BISI 5204

Study of the Distribution of Compressive Stresses Within the Roll Gap When Cold-Colling Strip With and Without Longitudinal Tension, by H. Vater. GERMAN, per, Stahl Eisen, Vol 86, 16 Jun 1966, pp 710-720.
*BISI 5486

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Operational Behaviour of Toothed and Ball Type Universal Couplings on Drive Shafts of a High-Speed Tandem Cold Rolling Mill, by J. Lenze, R. Lorscheider. GERMAN, per, Stahl Eisen, Vol 86, Jun 1966, pp 841-851.
BISI 5255

New Rod and Bar Mill for Special Steels, by T. Schmidt. GERMAN, per, Stahl Eisen, Vol 86, 14 Jul 1966, pp 877-887
*BISI 5485

Investigations of Constructional Methods for Four-High Cold-Rolling Mill Stands, by H. Reihlen. GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966, pp 1273-1284.
BISI 5237

Simplified Calculation of Roll Force and Torque, by A. Troost, F. W. Hollmann. GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966, pp 1285-1289.
BISI 5300

Engineering Services in Data Logging Installations with Process Control Computers in Iron and Steelworks, by H. J. Stubler. GERMAN, per, Stahl Eisen, Vol 86, 17 Nov 1966, pp 1537-1543.
BISI 5301

Action of a Throat Armour of Variable Diameter on the Gas Flow in a Blast Furnace, by W. Looz, H. Schorpe. GERMAN, per, Stahl Eisen, Vol 87, 12 Jan 1967, pp 21-23.
*BISI 5483

Trends of Scientific-Technological Progress Standardization of Technology in the Field of Assembly Processes, GERMAN, per, Standardisierung, No 10, 1966, pp 402-405, 478-490.
ACSI J-1695
ID 2204004367

Halogen Extinguishing Agents, by Ludwig Scheichl, GERMAN, per, VDE Zeitschrift Forschung und Technik, Vol IV, No 4, 1966, pp 110-114.
Dept of Navy/MDL Tr No 1100

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Basic-Protection Hme Shelters in Accordance with the Present Level of Technolgy and the Projected Decree on the Nature of Home Shelters, by H. Leutz, GERMAN, per, Zivilschutz, No 1, 1967, pp 21-25.
*ACSI J-1901
ID 2204011267

Production of Alkali Metals by Reduction of Their Compounds with Zirconium, by J. H. De Doer and J. Broos, et al, GERMAN, per, Z. Anorg. Allg. Chem., Vol CXIX, 1930, pp 113-121.
*AEC-Windscale-Trans-305

The Development of Wide Strip Mills, by A. Blotto, HUNGARIAN, per, Koh. Lapok, Vol 98, Nov 1965, pp 487-494.
BISI 5143

Shielding for the Frascati Linear Accelerator Quench Tanks, by M. Ladu and M. Pelliccioni, ITALIAN, rpt, LNF-66/44, Internal Report No. 332 of the Frascati National Laboratories Under CNEN, 19 Sept 1965. P911108067
AEC-SLAC-TR-60

Research on the Collision-Resisting Construction of the Sides of a Nuclear Powered Ship (Report 3) by Ooi, Hiroshi, Harima, Ietsuo, et al. 29 pp. JAPANESE, per, Mitsubishi Nippon Juko Gijo, Vol 4, 1963, pp 145-155.
AEC NSJ-tr-30

General Outline of Higashi-Meihan Highway Project, by Kanenori Muto, 10 pp. JAPANESE, per Road Construction, No 225, October 1966, pp 36-38.
DIA LN 717-66

Road Administration of Izu Island, No 2, by Sekine Yoshiyuki, 11 pp. JAPANESE, per, Road Construction, No 225, October 1966, pp 47-50.
DIA LN 717-66

Studies on Stresses in Helical Teeth, by H. Kuginiwa, JAPANESE, per, Sumitomo Kinzoku, Vol XVIII, 1966, pp 138-147.
NLL 6075.461 (1851)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Notch Toughness of Deposited Metal in Automatic Arc Welding, Report No 2, by O. Takagi, JAPANESE, per, Yosetsu Gakkai-shi, Vol XXXI, No 10, 1962, pp 821-833.
NLL 6180.59B 1966 (1567)

Economy of Steel in the Light of Classification Requirements, by S. Wiewiorski, POLISH, per, Budownictwo Okretowe, Vol X, No 3, 1965, pp 79-112.
NLL 9022.065B 1966 (2270)

Typified and Standardized Road Pavements, by S. Rolla, POLISH, per, Drogownictwo, No 9, 1966, pp 211-213.
*ACSI J-2030
ID 2204012667

Road Pavement Construction in Sweden, by Z. Skarynski, POLISH, per, Drogownictwo, No 9, 1966, pp 217-222.
*ACSI J-2030
ID 2204012667

Examples of Strengthening or Reconstructing Frost-Damaged Road Sections, by E. Olinger, POLISH, per, Drogownictwo, No 9, 1966, pp 227-231.
*ACSI J-2030
ID 2204012667

Research Concerning the Adsorption of Bitumen by Substitutional Fillers, by H. Lopienska, POLISH, per, Drogownictwo, No 9, 1966, pp 231-234.
*ACSI J-2030
ID 2204012667

What is Tensiometry and What Purpose Does It Serve? by Zygmunt Rolinski, POLISH, per, Horyzonty Techniki, No 10, 1966, pp 6-8, 23.
ACSI J-1699
ID 2204004867

Fracturing of Oil Reservoirs with Simultaneous Use of Explosives, by A. Ogrodnik, POLISH, per, Nafta, Vol XX, No 5, 1964, pp 121-123.
ATS PJ-4538

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Theoretical Principles of Using Models to Study the Process of Oil Recovery From Reservoirs by the Displacement of Oil with Water (Water-Drive Conditions), by K. Liszka, POLISH, per, Nafta, Vol XX, No 6, 1964, pp 152-156.
ATS PJ-4477

Resistance of Soil Excavating with Multi-Bucket Wheel Excavators, by Waldemar Kolkiewicz, POLISH, per, Przegląd Mechaniczny, No 3, 1967, pp 73-76.
*ACSI J-2181
ID 2204015767

Contaminated Road, by Adam Kolodziejczyk, POLISH, per, Zolmierz Polski, No 28, Jul 1966, pp 8-9.
*ACSI J-2034
ID 2878036667

Directional Drilling of Wells in the Bedding Plane, by N. C. Iovitoiu, RUMANIAN, per, Petrol Gaze, Vol XV, No 7, 1964, pp 342-347.
ATS RU-4529

Rumanian Bed Lathes, by Rusalín Muresanu, RUMANIAN, per, Viata Militara, No 12, 1966, *ACSI J-2069
ID 2204013567

Provisional Instructions for Hot Air Component Test Model 2, SWEDISH, rpt, Provisorisk Instruktion for Varmluftaggregat Forsöksmodell 2, 17 pp.
*ACSI J-2287
ID 2204016867

Device for Transfer of Rolled Out and Cut Dough Pieces From a Conveyor Belt To a Belt Leading to a Fermentation Room, by E. Dahlstrom, 9 pp.
SWEDISH, Patent, No 163,068.
Dept of Comm
Patent Office

Process for the Manufacture of Plates and, Plates Produced by the Process, as Well as a Device for Carrying Out the Process, by Hans Boswhart, 7 pp.
SWISS, per, Patent No 297,479.
Dept of Comm/Patent Office

Scientific
Methods & Equipments

Two Mechanisms for the Formation of a Latent Electrophotographic Image, by V. M. Fridkin and Yu. N. Barulin, RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLV, No 1, 1962, pp 78-81.
ATS RJ-4642

A Method for Minimizing Microprograms, by T. K. Slobodyanyuk. RUSSIAN, bk, Kiberneticheskaya Tekhnika, 1965, pp 72-80.
*FTD-INT-23-600-67

Future Plans for Work of Kinofoto Institute (NIKFI), by V. G. Komar and V. G. Chernov, RUSSIAN, per, Tekh. Kino. i Televid., Vol VIII, No 8, 1964, pp 1-6.
NLL 5828.4F 1966 (11593)

Comparison of the Visual Evaluation of the Quality of Photographic Image and Its Objective Criteria, by I. G. Abidina and Z. L. Petrushkina, RUSSIAN, per, Tekh. Kino i Televid., Vol VIII, No 12, 1964, pp 28-34.
NLL 5828.4 F (11674)

A Graphic Analytical Method of Calculating the Distribution of Brightness in the Image of a Narrow Band of Finite Width, by O. F. Grebennikov and S. M. Provornov, RUSSIAN, per, Trudy Leningr. Inst. Kinoinzhenerov, No 8, 1962, pp 37-42.
ATS RJ-4666

Investigation of the Relief Image on Matrix Film, by S. S. Savko, RUSSIAN, per, Uspekhi Nauch. Fotograf., Vol VIII, 1962, pp 97-105.
NLL 5828.4F (12086)

The Nature of Photographic Fog and the Action of Stabilizers on It, by G. P. Faerman, RUSSIAN, per, Usp. Nauchn. Fotogr. Ak Nauk SSSR, Otd. Khim. Nauk, Vol III, 1955, pp 59-60.
ATS RJ-4665

Some Problems Relating to the Accuracy of Reproduction of Images by Electrophotographic Methods, by S. I. Khotyanovich, RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr. i Kinematogr., Vol VII, No 4, 1962, pp 272-279.
ATS RJ-4652

Scientific
Methods & Equipments (Contd)

Fatigue in Electrophotographic Layers, by
L. I. Nyum'ko,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol VII, No 4, 1962, pp 297-298.
ATS RJ-4647

The Possible Shape of the Reciprocity Failure
Curve for the Electrophotographic Process on
ZnO Layers, by V. M. Fridkin,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr. i
Kinematogr., Vol VII, No 4, 1962, pp 304-306.
ATS RJ-4645

Validity of the Reciprocity Law in Electro-
photographic Layers of Zinc Oxide, by
I. Z. Plavina,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol VIII, No 1, 1963, pp 57-58.
ATS RJ-4643

Effect of the Parameters of Electrophoto-
graphic Layers in the Optical Density of
the Developed Image, by Ya. A. Cherkasov,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol VIII, No 3, 1963,
pp 214-215.
ATS RJ-4648

Spectral Sensitivity of Selenium Zeroradiogra-
phic Plates, by A. I. Kaminskis, et al,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol IX, No 3, 1964, pp 189-191.
ATS RJ-4654

Characteristics of Latent Image Formation on
Electrophotographic Zinc Oxide Coating with
a Paper Base, by Yu. A. Cherkasov and Others,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol IX, No 4, 1964, pp 298-300.
ATS RJ-4638

Investigation of Color Gamut, by
D. K. Balabukha and M. M. Mirfazieva,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotograf.
i Kinemat., Vol IX, No 6, 1964, pp 440-447.
NLL 5828.4F 1966 (11592)

The Effect of Certain Parameters of Electro-
photographic Layers on Latent Image Formation,
by Yu. N. Barulin,
RUSSIAN, per, Zh. Nauchn. i Prikl. Fotogr.
i Kinematogr., Vol X, No 2, 1965, pp 107-112.
ATS RJ-4641

Scientific
Methods & Equipments (Contd)

Method of Photographic Diffusimetry and Its
Application for Evaluating Photographic
Film Sharpness, by G. A. Istomin,
RUSSIAN, per, Zh. Nauchn. i Prikl. Foto. i
Kinemat., Vol X, No 5, 1965, pp 378-390.
NLL 5828.4 F (11657)

Method of Photographic Diffusimetry and Its
Application to the Evaluation of Photo-
graphic Film Sharpness, II Evaluation of
the Harkation Effect on the Image Sharpness
by Means of the Contrast Functions, by
G. G. Gribakin and G. A. Istomin,
RUSSIAN, per, Zh. Nauchn. i Prikl. Foto. i
Kinemat., Vol X, No 5, 1965, pp 438-445.
NLL 5828.4 F (11662)

Thermoplastic Polymers, Photopolymerization
and Photo-destruction in Photographic
Processes, by L. M. Ryabova, et al,
RUSSIAN, per, Zh. Nauchn. i Prikl. Foto. i
Kinemat., Vol XI, No 1, 1966, pp 68-77.
NLL 5828.4F (12097)

Microminiaturization, by Vaclav Benedikt.
CZECH, bk, Mikrominiaturizace, 1965,
242 pp.
*FTD-HT-23-611-67

Some Modern Equipment and Sorting Aggregates,
by K. Korinek,
CZECH, per, Stavivo, No 10, 1966, pp 375-378.
*ACSI J-2039
ID 2204013367

Aggregates for Modern Roads and Landing
Stripes, by J. Spurek,
CZECH, per, Stavivo, No 10, 1966, pp 386-388.
*ACSI J-2039
ID 2204013367

A Method of Modifying Light-Sensitive Ma-
terial for Photomechanical Reproduction, by
P. Vokral and L. Sebel,.
CZECH, Patent No 100,870, Nov 30 1959.
ATS CJ-4679

Process for Preparing Various Metals Such as
Magnesium by Treatment of Their Salts With Acti-
vated Nascent Hydrogen, by Alfred Delevey. 3 pp.
FRENCH, Patent, 1,199,687, 16 Jun 1958.
ABC ORNL-tr-803

Scientific
Methods & Equipments (Contd)

Image Reproducing Element and Its Process of Use.
FRENCH, Patent, 1,415,866, Sept 20, 1965, 30 p.
Chem Trans Sv No 2880

Plotting and Sighting Devices and Optical Instruments,
GERMAN, per, Die Artillerieoffizier, 1960,
pp 68-101, Less pp 82-83.
ACSI J-1457
ID 2204063966

Problems in the Use of Road Graders, by
A. Uhlmann,
GERMAN, per, Die Strasse, No 9, 1966,
pp 457-464.
ACSI J-1781
ID 2204007767

Some Ideas on the Construction of Concrete Containers, by W. Koenne.
GERMAN, per, Nuclear Structural Engineering,
Vol 2, 1965, pp 126-133.
AEC ORNL-tr-873

Packaging From Coated Corrugated Cardboard,
by Windhaus, Petermann, et al,
GERMAN, per, Verpackungs Rundschau, No 1,
1965, pp 17-24.
*ACSI J-2180
ID 2204015667

The 11th North German Construction-Equipment Fair of 1966 in Neumuenster, by, Frodau,
GERMAN, per, Wasser und Boden, Vol XVIII,
No 12, 1966, pp 438-442.
*ACSI J-2027
ID 2204012367

Aerial Photography Using Wide-Angle Objectives With Shaded Filters, by
M. N. Tsyganov, 7 pp.
HUNGARIAN, per, Geodeziya i Kartografiya,
No 2, 1965, pp 33-37. P100090667
FTD-HT-66-392

Magnetic Image Recording, Part 1, by
G. Heckenast,
HUNGARIAN, per, Kep-es Hangtechnika, No 2,
1964, pp 45-49.
ATS HJ-4680

Scientific
Methods & Equipments (Contd)

Magnetic Image Recording, Part 2, by
G. Heckenast,
HUNGARIAN, per, Kep-es Hangtechnika, No 2,
1964, pp 69-73.
ATS HJ-4681

How to Make a Photographic Neutral Density Wedge, by I. Berty,
HUNGARIAN, per, Kep-es Hangtechnika, Vol X,
No 4, 1964, pp 97-105.
ATS HJ-4662

Magnetic Image Recording, Part 3, by
G. Heckenast,
HUNGARIAN, per, Kep-es Hangtechnika, No 5,
1964, pp 110-118.
ATS HJ-4682

Determination of Spatial Coordinated of a Satellite on the Basis of Two Photographs in the Case of a Vertical Position of the Camera, by
Czeslaw Lipianin,
POLISH, per, Biuletyn Institutu Geodezji i Kartografii, 1965 or 1966, pp 270-271.
ACIC-TC-1180

Navigation, Communications, Detection &
Countermeasures

Principles of Radio Direction Finding, by
I. S. Kukes and M. Ye. Starik, 527 pp.
RUSSIAN, bk, Osnovy Radiopelengatsii, 1962,
pp. 1-640.
JPRS 40258

Theory of the Gyroscope and Gyroscopic Instruments, by V. A. Pavlov, 633 p.
RUSSIAN, bk, Teoriya Girokopa i Girokopieskikh Priborov, 1964, 495 pp.
FTD HT 66-267

Short-Wave Multichannel Telegraph Communication and Error-Correcting Techniques,
CHINESE, per, Ch'i-Tien Tzu Chi Shu, No 5,
1965, pp 5-9.
*FTD-HT-23-602-67

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Certain Requirements of Light Demodulators for Coherent Light Optical Communication, by Ch'en, Heng.
CHINESE, per, Wu Hsien Tien Chi Shu, No 11, 1965, pp 12-17.
*FTD-HT-23-606-67

Swiss Navigation on the Rhine and Its Importance for Switzerland, 6 pp.
FRENCH, rpt, Office de la Navigation Rhenane Bale, pp 1-6.
DIA LN 76-67

The Determination of Signal Field Strength at Frequencies above 470 mc in Irregular Terrain, GERMAN, per, Nachrichtentechnik, No 5, 1965, pp 161-166.
ACSI J-1712
ID 2204005067

Sighting Mechanism Coupled with Laser-Range-finder, GERMAN, per, Soldat und Technik, Jan 1967.
*ACSI J-2166
ID 2204015567

Inland Navigation, 32 pp.
GERMAN, per, Verehrsblatt Amtlicher Teil, Vol XX, No 6, June 1966, pp 161-170.
DIA LN 4-67

Problems and Prospects of German Inland Navigation, by R. Wreden, 14 pp.
GERMAN, per, Zeit fur Binnenschiffahrt, No 9, Sept 1961, pp 347-354.
DIA LN 1-67-A

Yugoslavian Inland Navigation by Drago Matkovic, 8 pp.
GERMAN, per, Zeit fur Binnenschiffahrt No 5, May 1963, pp 107-110.
DIA LN 169-67-B

The Neglected Infrastructure of Inland Navigation, 7 pp.
GERMAN, per, Zeit fur Binnenschiffahrt, No 3, Mar 1965, pp 76-79.
DIA LN 1-67-C

Scientific
Nuclear Science & Technology

Model 1232-01 Scintillation Dosimeter for Measurement of the Dosage Rate of X- and Gamma-Radiation, by M. I. Arsaer, B. F. Osipov, H. E. Sulimova, 13 pp.
RUSSIAN, rpt, 1963. P911103667
AEC-ORNL-Tr-1476

Control Theory for Heterogeneous Reactors, by A. D. Galanin, 17 pp.
RUSSIAN, rpt, TEF-406, Moscow, 1965.
P911105067
AEC-Tr-6848

Proton Exchange in Alkali Metal Vapours With Formation of Highly Excited Hydrogen Atoms, by R. N. Il'in, V. A. Oparin, E. S. Solov'ev, N. V. Fedorenko, 22 pp.
RUSSIAN, rpt, Moscow, 1966, pp 1-17. P911104467
AEC NP-Tr-1462

Adjustment of the "Sirius" Stellarator, by P. Ya. Burchenko and E. T. Vasilenko, RUSSIAN, rpt, 283/R-097, 1966.
*AEC-MATT-Trans-39

High-Energy Neutron Propagation in Iron-Water Mixtures, by B. S. Sychev and V. V. Mal'kov, RUSSIAN, rpt. 1965. P911107667
AEC-ORNL-TR-1537

Production of Positrons During Bombardment of Thick Foil by Fast Electrons, by A. V. Bautin, RUSSIAN, per, Atomnaya Energiya, Vol XXI, No 2, 1966, pp 126-127.
*NASA TT F-10,932

Rate of Evaporation of Carbide Cathodes of Uranium, Zirconium and Solid Solutions Investigated, by B. S. Kul'vanskaya, 15 pp.
RUSSIAN, per, Atomnaya Energiya, Vol. 21, No. 5, Nov 1966, pp. 368-375.
JPRS 40060

Delayed Neutrons in the Fission of the Th-232, U-235 and U 238, by B. P. Maksyutenko, RUSSIAN, per, Byull. Inform. Tsentra Yadern. Dannym, No 3, pp 75-84.
*AEC LA-tr-67-16

Scientific
Nuclear Sciences & Technology (Contd)

Methods of Investigating Corrosion and Electrochemical Process at High Temperatures and Pressures, by P. A. Akol'zin and V. Gerasimov, RUSSIAN, bk, Corrosion of Constructinal Materials of Nuclear and Conventional Power Plants, Chapter 2, 1963, pp 56-93.
NLL 9022.09 (4000)

Anomalous Escape of Ions Into the "Loss Cone", by A. A. Galeev, RUSSIAN, rpt, 1965 Culham Conference Paper CN-21/214, pp 1-15.
NLL 9091.9F 1966 (CTO/236)

Experiments on External Injection and Containment of a Plasma in a Stellarator with a Helical Field with $n = 2$, by D. K. Akulina, et al, RUSSIAN, rpt, 1965 Culham Conference Paper CN-21/244, pp 1-14.
NLL 9091.9F 1966 (CTO/232)

Dynamic Decomensation of the Space Charge of Ion Beams in Electromagnetic Istopes Separation, by B. Y. Gavrilov, RUSSIAN, per, Doklady Moskow Institute Atomnoy Energii, No 592, 1964, pp 3-20.
*FTD MT 148-66

X-Ray Diffraction Study of Super-Saturated Solid Solution Decomposition in Ticonal Alloy, by L. M. Magat, RUSSIAN, per, Fiz. Metal. i Metallov., Vol XIX, No 4, 1965, pp 521-529.
NLL 5828.4 1965 (5809)

Changes in the Tigroid Substances of Neurons Under the Effect of Radio Waves, RUSSIAN, per, Fiziologicheshnyy Zhurnal, Vol XII, No 1, 1966, pp 70-78.
ATD 67-3

Desorption of Gases From Metallic Surfaces Under Electron Bombardment, by V. L. Auslender, G. B. Minchenkov, 14 pp.
RUSSIAN, rpt, Institute of Nuclear Physics, Siberian Branch of the USSR Academy of Sciences, Novosibirsk, 1965, pp 1-16.
P911104367
AEC NP-Tr-1467

Scientific
Nuclear Sciences & Technology (Contd)

Differential Recombination Chamber, by M. Zel'chinskiy, K. Zharnovetskiy, 11 pp.
RUSSIAN, rpt, Institute for Nuclear Studies, Warsaw, 1966. P911104867
AEC BNL-Tr-105

Ion-Exchange Membranes for Salt-Water Desalinators, by F. T. Shostak, et al, RUSSIAN, rpt, Ionitovye Membrany dlya Opresnitelei Solenyykh Vod, Moscow, 1966, 10 pp.
*AEC

Soviet Research on Ion-Exchange Technology, 31 pp.
RUSSIAN, bk, Ionobmennaya Tekhnologiya, 1965, pp. 49-54, 63-66, 101-106.
JPRS 40432

Gamma Spectrometers with Germanium Detectors, by L. V. Maslova and O. A. Matveyev, et al, RUSSIAN, rpt, Lithium-Drifted Germanium Detectors. Proceedings of a Panel on the Use of Lithium-Drifted Germanium Gamma-Ray Detectors for Research in Nuclear Physics Held in Vienna June 6-10, 1966, 1966.
*AEC-ORNL-TR-1651

Method of Structuring Heterogeneous Ion Exchange Membranes, by B. N. Laskorin, et al, RUSSIAN, rpt, Metod Strukturirovaniya Geterogennykh Ionitivnykh Membran, Moscow, 1966, 7 pp.
*AEC

Taking Formation Heterogeneity Into Account in Problems Involving Flow of Oil, Gas and Water, by B. B. Lapuk and S. N. Zakirov, RUSSIAN, per, Neft. Khoz., Vol XLII, No 5, 1964, pp 49-54.
ATS RJ-4502

Optimum Time of Measuring Activity in the Presence of Unknown Background. I. Non-simultaneous Measurements of Sample and Background, by L. Yurkevich and S. Sterlin'skiy, RUSSIAN, per, Nukleonika, Vol IX, 1964, pp 697-703.
NLL 9022.09 (4129)

Scientific
Nuclear Science & Technology (Contd)

Attenuation in Concrete of a Neutron Flux
Emitted at an Angle of 90° to the Primary
Proton of a 10 GeV Synchrophasotron, by
V. E. Aleinikov, et al,
RUSSIAN, rpt, Oslablenie v Betone Potoka
Neitronov Ispuskayemykh pod Ugлом 90° k
Napraveniuyu Perivichnogo Puchka Protonov
Sinkhrofasotona na 10 GeV, 1966, 14 pp.
P911100467
AEC-SLAC-Trans-57

Transverse Injection of a Plasma Into a
Magnetic Field, by K. D. Sinelnikov and
B. N. Rutkevich,
RUSSIAN, rpt, Plasma Physics and the Problems
of Controlled Thermonuclear Fusion, 1965,
pp 5-16. P911101767
AEC-NP-TR-1472

Possible Development of Instabilities in a
Plasma Captured by a Transverse Magnetic
Field, by I. I. Demidenko and N. S. Lomiono,
RUSSIAN, rpt, Plasma Physics and the Problems
of Controlled Thermonuclear Fusion, 1965,
pp 21-26. P911101667
AEC-NP-TR-1459

Interaction of a Plasma with a Transverse
Magnetic Field, by V. G. Zikov and
N. G. Sinitza, et al,
RUSSIAN, rpt, Plasma Physics and the Problems
of Controlled Thermonuclear Fusion, 1965,
pp 27-36. P911101267
AEC-NP-TR-1474

Production of Monochromatic Y-Rays in a
Electron Storage Ring, by L. Korobeinikov,
RUSSIAN, rpt, Polucheniye Monokhromaticheskikh
Y-Kvantov na Elektronnom Nakopitele, 1966,
22 pp. P911107267
AEC-SLAC-TRANS-55

Radiative Effects in Colliding-Beam Experi-
ments, by V. N. Bair, et al,
RUSSIAN, rpt, Radiatsionnyye Effekty v
Opytakh na Vstrechnykh Elektronnykh Puchakh,
1966, 10 pp. P911107367
AEC-SLAC-Trans-52

Lifetime of Individual Charged Particles in
a Magnetic Mirror Trap, by V. M. Balebanov
and N. N. Semashko,
RUSSIAN, rpt, Report IAE-1078, 1966, pp 1-60.
NLL 9091.9F (CTO/308)

Scientific
Nuclear Science & Technology (Contd)

Influence of Irradiated Aqueous NaCl
Solutions on the Viscosity of Tissue
Nucleoproteins, by Yu. F. Malina, M. I.
Tseytlin, 9 pp.
RUSSIAN, rpt, Rol Perekissei Radio-
biologicheskogo Effekta, Moscow, 1960.
P911104167
AEC NP-TR-1487

Equivalent Material Thicknesses for Radiation
Attenuation, by A. Honig.
CZECH, per, Jaderna Energie, Vol 12, 1966,
pp 296-298.
*AEC ORNL-tr-1666

Betatron and the Problem of Protection in
Its Use, by Alofzia Hrabovcova,
CZECH, per, Prac. Lek., Vol XVIII, No 1,
1966, pp 21-29.
*AEC-ORNL-TR-1650

Allowance for Resonance Structure of Fertile
and Fissile Nuclei in Fast and Intermediate
Reactor Calculations, by N. Pucker,
FRENCH, per, Acta Physica Austriaca, Vol
XXI, No 3, 1966, pp 283-289. P911100667
AEC-BNL-TR-119

Development of Shielding Calculation Methods
at the Atomic Energy Commission [France],
by C. Devillers, P. Lafore, J. Rastoin, 11 pp.
FRENCH, rpt, IEP/SEPP 485/66 CD/PL/JR/DH,
Apr 1966. P911102267
AEC ORNL-Tr-1381

Structure and Properties of Lithium Fluoride
Irradiated with Neutrons at Low Temperatures,
by M. Lambert and A. Guinier,
FRENCH, per, Journal de Physique, No 24,
1963, pp 552-560. P911107067
AEC-UCRL-Trans-10085

Separation of the Rare Earth Elements by the
Relative Solubility of Their Carbonates in Water
Saturated With CO_2 Gas, by F. Trombe, P. Caro,
10 pp.
FRENCH, rpt, Proc. Conf. Rare Earth Res. 5th,
Vol 3, 1965, pp 87-98.
AEC LA-tr-65-24

Electrochemical Converters of Nuclear Energy,
by G. Grueneberg. 66 pp.
GERMAN, rpt, Feb 1965.
AEC NP-tr-1295

Scientific
Nuclear Science & Technology (Contd)

Study of the Properties of Gamma-Radiation in Air, by Maria Tisljar, 7 pp.
GERMAN, per, Acta Physica Austriaca, Vol 21, No 1/2, 1966, pp 198-203. P911103067
AEC ORNL-Tr-1543

Determination of the Absolute Activity and Energy of β -Emitting Nuclides by Means of Liquid Scintillators, by Klaus E. Duftschmid, 16 pp.
GERMAN, per, Anz. Akad. Wiss. Math-Naturw. Kl., No 10, 1963, pp 170-186.
AEC ANL-tr-216

Determination of Half-Lives of the Natural Radioactive Nuclides Sm^{147} and Lu^{176} by Means of Liquid Scintillators, by Dieter Donhoff, 7 pp.
GERMAN, per, Anz. Akad. Wiss. Math-Naturw. Kl., No 10, 1963, pp 186-192.
AEC ANL-tr-215

Dose Constants of Gamma-Rays, by E. Marth, GERMAN, per, Atompraxis, Vol XII, No 8, 1966, pp 392-398. P911105967
AEC-ORNL-Tr-1542

Methods for Radiochemical Determination of Fission Product Activities in Irradiated Fuel Elements, by H. Wertenbauch, GERMAN, rpt, Inst. of Radiochemistry, Nuclear Research Center, Karlsruhe, pp 1-3.
*AEC-Windscale-Trans-307

Measurements of Electron Temperature in an Argon-Potassium Plasma, by W. Riedmueller, 48 pp.
GERMAN, rpt, IPP 3/31, 1965. P911103967
AEC NP-Tr-1498

A Trochoid Spectrometer for Measuring Ion Energy Distribution in Plasmas, by C. Bastain, 13 pp.
GERMAN, Rpt, JUL-200-PP, Kernforschungsanlage Julich, Oct 1965, pp 1-19. P911103767
AEC-NP-Tr-1484

Scientific
Nuclear Science & Technology (Contd)

Comparison of the Absolute Intensities of the Radiation of a High Temperature Plasma in the Visible and Soft X-Ray Regions, by P. Bogen and J. Schluter, GERMAN, rpt, Julich Annual Report 1965, JUL-381-PP, 1966, pp 59-64. P911100267
AEC-NP-TR-1489

Gundremmingen (KRB) Nuclear Power Plant Annual Report, 1964, 145 pp.
GERMAN, rpt, Kernkraftwerk Gundremmingen (KRB) Jahresbericht, 1964, 1965.
AEC-tr-6643

A Transistorized Time-to-Pulse-Height Converter by Using the Sampling Method, by D. Bloess, F. Munnich, GERMAN, per, Nuclear Instruments and Methods, Vol 28, 1964, pp 286-292.
AEC ANL-190

Calculation of the Streaming Effect in a Center Void Channel of a Reactor by Means of a Fictitious Medium Representation, by Hans Maerkel, GERMAN, per, Nukleonik, Vol 6, 1964, pp 288-299.
AEC AI-tr-203

Nuclear Weapons, GERMAN, prt, NVA Kalender, 1967, pp 143-151.
ACSI J-1790
ID 2204008567

Investigation of the Decomposition of Vacancy Agglomerates in Neutron-Irradiated Nickel by Means of the Critical Shear Stress, by D. Ast, J. Diehl, 21 pp.
GERMAN, per, Physica Status Solidi, Vol 17, 1966, pp 269-284. P911104967
AEC-ANL-Tr-420

25 Years of Nuclear Fission. Methods and Results of Chemical Studies. I. Historical Background, Fission Products, by G. Herrmann. 44 pp.
GERMAN, per, Radiochim. Acta, Vol 3, 1964, pp 169-185.
AEC AERE-tr-1036

Acceleration of a Plasma by a Magnetic Piston According to the "Free Particle" Model, by W. Beiger and P. Graft, et al, GERMAN, rpt, Report JUL-336-PP, Nov 1965, pp 1-15. P911106167
AEC-NP-TR-1510

Scientific
Nuclear Science & Technology (Contd)

Build-Up Factor B in Attenuation Calculating Gamma-Radiation, by Silvia Dumitrescu, FRENCH, per, Stud. Cercet. Fiz., Vol XVIII, 1966, pp 445-446.
*AEC-ORNL-TR-1640

Annual Report of the Research Group for the Deep Deposition of Radioactive Waste, by H. Krause, et al.
GERMAN, rpt, Studiengruppe fur Tieflagerung Radioaktiver Abfalle, 1965, Aug 1966.
*AEC ORNL-tr-1664

A Few of the Examples of the Use of Lasers in Ballistics Research, by K. Vollrath, GERMAN, per, Wehrtechnische Monatshefte, Vol LXIV, No 1, pp 18-31, No 2, pp 65-73, 1967.
*ACSI J-2306
ID 2204017167

New-Type Energy Spectrometer for Medium Fast Neutrons, by R. Dobrozemsky and H. Felber, GERMAN, per, Wiss. Math. Naturwiss. Kl. Sitzungsber., Vol CLXXIII, 1965, pp 331-342.
*AEC-ORNL-TR-1657

Electron Microscopic Studies on Lysosomes in the Blastema of the Limb Buds of the Rat, by W. Schwarz, 14 pp.
GERMAN, per, Zeitschrift fur Zellforschung, Vol 73, 1966, pp 27-36. P911102167
AEC IA-TR-67-10

Penetrating Radiation Principle - Welding Process With X-Ray Control of Weld Quality, by Dr. Stehle, Dr. Kaden, Dr. Scheal, 5 pp.
GERMAN, Supplement to Patent (Appl. 8 97 566 VIII/21h - PIA 65/1372), 5 Jun 1966. P911102967
AEC WAPD-Tr-46

Fast Reactors: Calculation of the Transients in Prompt Excursions, by M. Motta, 33 pp.
ITALIAN, per, Energia Nucleare, Vol 13, 1966, pp 359-370. P911102767
AEC UCRL-Tr-10086

Analysis of the Behavior of Salt-Metal Extraction Column for U-Bi Fuel, by Terukatsu NIYAUCHI, et al JAPANESE, per, Kagaku Kagaku, Vol 26, 1962, pp 991-998.
*AEC ORNL-tr-1665

Scientific
Nuclear Science & Technology (Contd)

Prospecting and Development of Uranium Deposits of Ningyo-Toge Uranium Field in Japan. 21 pp.
JAPANESE, per, Kozan Chishitsu, Vol 14, No 63, 1963, pp 1-10.
AEC NSJ-tr-20

New Long Range Program for Development and Utilization of Atomic Energy, by Tasaburo Yamada.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Tokyo, Feb 14-15, 1967.
RAND LT 67-20

Development of Uranium Enrichment Technique in Japan by Kunio Yoshimura.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-21

Plutonium Utilization Use of PU for Advanced Thermal Reactor.
by Sadamu Sawai.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-22

Use of PU for FBR, by Ryohei Miki.
JAPANESE, rpt, Program for 1967, National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-23

Japanese Viewpoint of Nuclear Fuel Cycle, by Minoru Takahashi.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-24

Situation of Nuclear Fuel Supply in the United States, by Toru Haginoya.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-25

Policy for Uranium Resources as Viewed by Fuel Manufacturers, by Kikusaburo Nagashima.
JAPANESE, rpt, Program for 1967 National Symposium on Atomic Energy, Feb 14-15, 1967.
RAND LT 67-26

Scientific
Nuclear Science & Technology (Contd)

Dose Rate and Tolerance Flux of High-energy Electron and Gamma Beams, by Klaus Tesch, POLISH, per, Nukleonik, Vol VIII, 1966, pp 264-266.
*AEC-SLAC-Trans

Leak Tests on the Containment of the Jen-1 Experimental Reactor, by M. A. Crespi, SPANISH, per, Energia Nucl., Vol IV, No 16, 1960, pp 61-69. p911106467
AEC-NP-TR-1496

Physics

Investigation of (e^+e^-) Pair Production by Electrons With $E=2.4$ GeV, by V. G. Grishin, et al. RUSSIAN, rpt.
*AEC SLAC-tr?

Showers in Lead Produced by 0.1 to 1 GeV Gamma-Quanta, by O.A. Zaimidoriga, et al. RUSSIAN, rpt.
*AEC ORNL-tr-1672

Investigation of a Plasma Blob Moving in a Toroidal Magnetic Field, by B. P. Ilenko and E. M. Zalkand, et al. RUSSIAN, rpt. P911100967
AEC-NP-TR-1476

Anisotropic Plates, by S. G. Lekhnitskiy. RUSSIAN, bk, Anizotropnye Plastinki, 1957.
*FTD-HT-23-608-67

On the Computation of Flow at Large Knudsen Numbers, by M. N. Kogan, L. M. Degtyarev, 19 pp. RUSSIAN, per, Astronautica Acta, Vol XI, No 1, 1965, pp 36-42. P100066067
FTD TT 65-1959

Experimental Study of the Effect of Thermodynamics Properties of a Fluid on Cavitation Phenomena, by N. S. Frahov, B. I. Borovskiy, et al. RUSSIAN, per, Aviatsionnaya Tekhnika, Vol IX, No 2, 1966, pp 130-136.
*NASA TT F-10,913

Scientific
Physica (Contd)

The Structure of the Products of Photochemical Reactions of Porphyrins, by I. F. Gurinovich, et al. RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CLV, No 6, 1964, pp 1345-1347.
ATS RJ-4658

Structure of the GaP Conduction Band, by S. A. Abagyan and V. K. Subashiev, RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLVI, No 4, 1964, pp 763-765.
ATS RJ-4677

A Study of the Mechanism of the Growth of Gallium Crystals from a Melt, by G. A. Alfintsev and D. E. Ovsienko, RUSSIAN, per, Dok Ak nauk SSSR, Vol CLVI, No 4, 1964, pp 792-94.
ATS RJ-4678

Excitation of Explosion Upon Shutting of Cavitation Bubbles in Liquid Explosives, by V. Ye. Gordeyev, A. I. Serbinov and Ya. K. Troshin, 5 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 172, No 2, 1967, pp 373-375.
JPRS 40270

Investigation of Current Distribution in the Coaxial Plasma Gun, by I. M. Zolototrubov. RUSSIAN, per, Dok Ak Nauk UkrSSSR, Fiz-Tekh, 1964, pp 1-10.
*FTD-HT-23-584-67

Oscillations and Heating of Small Plasma Bunches incident on an Axially-Symmetrical Magnetic Field by N. A. Khizhnyak, A. A. Vodyanitskiy, RUSSIAN, per, Doklady AN UKRSSR, Fiziko-Tekhnicheskii Institut, No 114, 1965, pp 1-9.
*FTD HT 23-661-67

Physical Factors Responsible for the Strengthening of a Niminoc-Type Alloy, by N. L. Baturinskaya and V. G. Chernyi, RUSSIAN, per, Fiz. Metal. i Metallov., Vol XX, No 4, 1965, pp 579-586.
NLL 9022.4B 1966 (66/5)

Scientific
Physics (Contd)

Study of the Properties of Hydrogen Atoms Absorbed Onto a Silica-Gel Surface by the Method Electron Paramagnetic Resonance, by V. B. Kazanskiy, G. B. Pariyskiy, 6 pp. RUSSIAN, per, Fizicheskiye Problemy Spektroskopii, No 2, 1963, pp 109-113. P100091567
FTD-HT-66-368

Geometrical Optics, by B. N. Begunov, RUSSIAN, bk, Geometricheskaya Optika, 1966, pp 3-204.
*ACSI J-2121
ID 2901001167

Kinetics of the Formation of Silver Nitrate Amines, by M. M. Pavlyuchenko and T. I. Torgonskaya, RUSSIAN, per, Geterogennyye Khim. Reaktsiy, 1961, pp 190-196.
ATS RJ-4669

Improving the Technological Properties of Water by Magnetic Field Application, by V. I. Klassen and S. V. Shcherbakov, RUSSIAN, per, Gornyi Zhurnal, No 5, 1965, pp 58-63.
NLL 9022.4B 1966 (65/398)

Certain Conformal Laws Relating to the Turbulent Boundary Layers at a Smooth Flat Plate, by K. V. Grishanin, RUSSIAN, per, Inzhenerno-Fizicheskiy Zh., Vol II, No 3, 1959, pp 19-28.
NLL RTS 3179
(On Loan or Purchase)

High-Temperature Reduction of Carbon Dioxide by Carbon, by E. S. Golovina and G. P. Khaustovich, RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol III, No 3, 1960, pp 13-20.
NLL RTS 2990
(On Loan or Purchase)

Electric Modeling of the Combustion Process by Means of Low-Temperature Plasma, by L. A. Vulis, RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol XI, No 5, 1966, pp 630-633.
*FTD-HT-23-650-67

Scientific
Physics (Contd)

Resistance of a Flat Plate Oriented Normal to the Flow of a Highly Rarified Gas, by V. A. Perepukhov. RUSSIAN, per, Inzhen Zhur, Vol V, No 5, 1965, pp 844-853.
*FTD-HT-67-33

Experimental Study of the Enthalpy of Tungsten Within the Temperature Range of 350 - 2000 C., by V. Ya. Chekhovskoi, et al. RUSSIAN, per, Inzh. Fiz. Zh., Vol 5, No 10, 1962, pp 13-18.
*AEC

Heat Transfer from a Cylindrical Surface with a Large Number of Ribs, by I. B. Tsesarskiy, RUSSIAN, per, Inzh. Fiz. Zh., Vol IX, No 6, 1965, pp 783-87.
NLL 9091.9F (Windscale 258)

Testing and Investigation of an Experimental Assembly of Rod Fuel Elements With Cores of Uranium Dioxide in Sheathing of a Zirconium Alloy Attaining a Maximum Burn-Up of 68,000 MW/day/t Uranium, by A. D. Amayev, R. S. Ambartsumyan, V. V. Goncharov, A. M. Glukhov, 34 pp. RUSSIAN, mono. Ispytaniye i Issledovaniye Opytnoy Sbornki Sterzhnevyykh TVEL s Berdachnikami iz Spechennoy Dvukhisi Urana v Obolochkakh iz Tsirkoniyevoogo Splava, Dostigavshy Maksimal'nogo Vygoreniya 68 000 Mvt. sub/t Urana, Moscow, 1966, 36 pp. P911105267
AEC-TR-6847

Cavitation and Some Problems in Hydrodynamics, by V. M. Ivchenko. RUSSIAN, per, Issledovaniya po Prik Gridrodinamike Ak Nauk UkrSSR, 1965, pp 70-77.
*FTD-HT-23-586-67

Torsion of Prismatic Bars Composed of Different Materials, Taking Non-Linear Creep into Account, by M. M. Manukyan and V. S. Sarkisyan, RUSSIAN, per, Izv. Ak Nauk Army SSR, Seriya Fiziko-Matemat Nauk, Vol XVI, No 3, 1963, pp 65-82.
NLL RTS 2734 (On Loan or Purchase)

Self-Diffusion in Polycrystalline Tellurium, by R. I. Kashlayeva, et al, RUSSIAN, per, Izv. Ak Nauk Azerb. SSR, Ser. Fiz. Mat. i Tekhn. Nauk, No 3, 1962, pp 95-97.
ATS RJ-4684

Scientific
Physics (Contd)

The Calculation of Free Turbulent Flows with the Aid of an Equivalent Problem of Thermal Conductivity Theory, by L. A. Vulis, RUSSIAN, per, Izv. Ak Nauk KazSSR, Seriya Energet., Vol II, No 18, 1960, pp 60-67. NLL RTS 2766 (On Loan or Purchase)

Measurements of the Total Neutron Cross Sections of IN and SM, by R. B. Begzhanov. RUSSIAN, per, Iz Ak Nauk Uzbek SSR, Ser Fiz-Matemat Nauk, No 4, 1964, pp 32-36. *FTD-HT-23-655-67

Theory of the Creep of Metals, by I. I. Bugakov and A. A. Nakulenko, RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh. i Mashinostr., Vol VI, 1963, pp 3-11. NLL RTS 2735 (On Loan or Purchase)

Displacement of Oil by Water in Porous Media Containing Low-Permeability Inclusions, by V. M. Ryzhik, RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i Mashinostr., No 1, 1964, pp 126-132. ATS RJ-4491

Experimental Investigations of the Thermodynamics and Hydrodynamic Properties of Gas-Condensate Mixtures in Flow Through Porous Media, by A. G. Durmish'yan, et al, RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i Mashinostr., No 1, 1964, pp 133-136. ATS RJ-4492

An Approximate Solution to the Problems of Unsteady-State Plane-Radial Flow, by V. M. Entov, RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i Mashinostr., No 4, 1964, pp 33-39. ATS RJ-4493

Study of the Mobility of Connate Water in a Stratified Porous Medium, by A. F. Bogomolova and V. M. Glazova, RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i Mashinostr., No 4, 1964, pp 180-184. ATS RJ-4489

Investigation of the Flow Past Elliptical Cones, by A. I. Shvets. RUSSIAN, per, Izv Akad Nauk SSSR Mekh Zhid Gaza, No 1, 1966, pp 130-137. NASA TT F-10,480

Scientific
Physics (Contd)

Flow of Viscous Fluid Between Fixed and Blown Rotary Disc, by L. A. Dorfman, RUSSIAN, per, Izvestiya Ak Nauk SSSR, Mekhnika Zhidkosti i Gaza, No 2, 1966, pp 86-91. *NASA TT F-10,931

Preparation of the Gaseous Medium on the Course of the Physiochemical Processes in Semiconductor Oxides at High Temperatures, by A. I. Leonov, RUSSIAN, per, Izv. Ak Nauk SSSR, Otd. Khim. Nauk, No 9, 1960, pp 1529-1534. ATS RJ-4676

Semiconductor Properties of Organic Dyes, by A. T. Vartanyan, RUSSIAN, per, Izvestiya Ak Nauk SSSR, Seriya Fizika, Vol XVI, No 2, 1952, pp 169-185. ATS RJ-4655

Experimenta on the Use of Thermography in an Investigation of Zinc Sulfide, by E. G. Vasil'eva and S. A. Fridman, RUSSIAN, per, Izv. Ak Nauk SSSR, Ser. Fiz., Vol XXIII, No 11, 1959, pp 1347-1350. ATS RJ-4683

Some Problems in the Physics of Thin Films by N. G. Nakhodkin. RUSSIAN, per, Iz AN UkrSSR, Fizika Metallicheskih Plenok, 1965, p 4-39. *FTD HT 23-666-67

The Reconversion of CO₂ for the Enrichment of Gases with Carbon Monoxide, by N. V. Lavrov and G. V. Grebenshchikova, RUSSIAN, per, Izv. AN Uzb. SSR Ser. Tekh. Nauk, Vol II, 1961, pp 70-78. NLL 9022.4 (66/74)

Investigation of Heat Emission with Drop-wise Condensation on the Basis of the Theory of Similarity, by G. I. Fuks and V. V. Ivanov, RUSSIAN, per, Izv. Tomskogo Politekh. In-Ta., Vol CX, 1962, pp 79-86. NLL RTS 2823 (On Loan or Purchase)

Scientific
Physics (Contd)

Transfer of Heat with Dropwise Condensation of Steam, by V. V. Ivanov, RUSSIAN, per, Izv. Tomskogo Politekh In-Ta, Vol CX, 1962, pp 87-94.
NLL RTS 2817
(On Loan or Purchase)

Investigation for Heat Exchange with the Dropwise Condensation of Steam, by V. V. Ivanov, RUSSIAN, per, Izv. Tomskogo Politekh In-Ta, Vol CX, 1962, pp 95-102.
NLL RTS 2824
(On Loan or Purchase)

Hydrodynamics Resistance of a Disc, by V. M. Kapinos, RUSSIAN, per, Izvestiya VUZ Energetika, i Transport, No 5, Sept-Oct 1965, pp 155-158.
*NASA TT F-10,930

Investigation of the Photoconductivity of Thin Layers of the Al-Se System, by V. P. Mushinskiy, RUSSIAN, per, Izvestiya VUZ Fizika, No 4, 1959, pp 135-139.
ATS RJ-4653

Regeneration of Charge Carriers in Organic Liquids, by Yu. A. Kopylov and A. M. Nemchenko, RUSSIAN, per, Izvestiya VUZ Fizika, No 3, 1964, pp 50-55.
ATS RJ-4656

Microscopic Theory of Quantization of Magnetic Flux in Superconductors, by L. P. Rapoport, 9 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Fiz, No 6, 1964, pp 58-63. P100089867
FTD-TT-65-868

Matrix Representation of the Gravitational Field, by N. V. Mitskevich, 18 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Fiz, No 6, 1964, pp 64-70. P100089867
FTD-TT-65-868

The Relationship Between Hardness and the Conditions Governing the Preparation of Vacuum Condensates of Cu and Al, by L. S. Palatnik and A. I. Il'inskiy, et al, RUSSIAN, per, Izv. VUZ Fiz., No 1, 1966, pp 122-128. P911101167
AEC-SC-T-66-0770

Scientific
Physics (Contd)

Solution of Certain Problems in the Flow of an Incompressible Fluid by Means of the Grid Method, by K. A. Allakhverdiev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VI, No 10, 1963, pp 35-39.
ATS RJ-4487

Flow of Liquid (And Gas) in a Fractured Reservoir, by R. G. Isayev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 1, 1964, pp 69-72.
ATS RJ-4482

The effect of Water-Soluble Surfactants on the Capillary Properties of Formation Systems, by Sh. K. Gimatudinov and V. A. Nikolayev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 3, 1964, pp 43-47.
ATS RJ-4478

Investigations on High Velocity Co-Current Flow Sprayers During the Absorption of Readily Soluble Gases, by V. I. Matrosov and V. M. Ramm, et al, RUSSIAN, per, Khim. Prom., Vol XLI, No 2, 1965, pp 46-53.
NLL RTS 3294
(On Loan or Purchase)

Lasers in Communication Systems, by V. N. Chernyshev, RUSSIAN, bk, Lazery v Sistemakh Svyazi, 1966, 319 pp.
*FTD-HT-23-613-67

Oscillations of a Conducting Droplet in a Magnetic Field, by A. Gailitis, RUSSIAN, per, Magnitnaia Gidrodinamika, No 2, 1966, pp 79-90.
*NASA TT F-10918

Small Oscillations of a Viscous Liquid Metal Droplet in the Presence of a Magnetic Field, by A. P. Zambran, RUSSIAN, per, Magnitnaia Gidrodinamika, No 2, 1966, pp 91-95.
*NASA TT F-10919

Effect of Water Flow Rate on Cavitation Erosion, by S. P. Kozyrev, RUSSIAN, per, Mashinovedeniye, No 1, 1966, pp 91-95.
*FTD-HT-23-581-67

Scientific
Physics (Contd)

Effect of High Temperature of Strength of Solidified Resins and Resin-Based Materials, by Ye. B. Trostyanskaya, RUSSIAN, per, Mekhanika Polimerov, No 5, 1966, pp 746-754.
*NASA TT F-10,934

Method of Calculating Flash-Evaporation Desalination Plants, by M. B. Vaisblat, 5 pp.
RUSSIAN, rpt, Metod Rascheta Opresnitel'nykh Ustanovok Mgnovennogo Ispareniya, 1967.
*AEC

The Wonder and Mystery in Psychics, by N. V. Kantorovich, 25 pp.
RUSSIAN, bk, Ocherki o Zdorovoy i Bol'noy Psikhike, 1966, pp. 142-164.
JPRS 40044

Effect of the Solvent on the Fluorescence and Absorption Spectra of Some Phthalimide Derivatives, by V. V. Zelinskiy, et al, RUSSIAN, per, Opt. i Spektroskopiya, Vol II, 1957, pp 402-405.
ATS RJ-4657

Ground-State Energy of He, by Yu. N. Demkov, M. G. Neigauz, et al. 10 pp.
RUSSIAN, per, Opt. i Spektros, Vol 4, 1958, pp 709-711.
AEC ANL-tr-248

Analysis of Frequency Multiplier Built Around Nonlinear Capacitance, by V. M. Val'd-Perlov, 10 pp.
RUSSIAN, per, Poluprovodnikovyye Pribory i Ikh Primeneniye Sbornik Statey, No 11, 1964, pp 59-70. P100102467
FTD MT 65-477

Preparation of Selenium Mirrors, by A. R. Krauze, RUSSIAN, per, Pribory i Tekhn. Eksperim., Vol VII, No 6, 1962, pp 132.
ATS RJ-4675

Thickness-Measuring Device Based on Radioactive Sources for Automatic Gaging of Films and Sheets During Production, by Yu. Ya. Loznovskiy, 17 pp.
RUSSIAN, rpt, Radioaktivnyi Tolshchinnomer dlya Avtomaticheskogo Kontrol'ya Tolshiny Plenochnykh i Tsvetnykh Materialov v Protsesse Ikh Isgotovleniya, 1966. P911103267
AEC NP-Tr-1477

Scientific
Physics (Contd)

Radiation Physics. II. Neutron and Gamma Dosimetry, by E.M. Kashlinskiy, D.Ya. Gubatova et al. 113 pp.
RUSSIAN, bk, Radiatsionaya Fizika. II. Dozimetriya Neitronov i Gamma-Luchei, 1964.
AEC-tr-6604

The Problem of Synchronization of Auto-Oscillators of Comparable Powers, by G. N. Rapoport, RUSSIAN, per, Radiotekhnika, Vol VI, No 4, 1951, pp 53-65.
ACSI J-1795
ID 2204008967

Calculation of Equilibrium Gas Flow in Supersonic Nozzles, by O. N. Katskova, RUSSIAN, rpt, Raschet Ravnonosnkh Techeniy Gaza v Sverkhzvukovykh Soplakh, 1964, pp 1-59.
*FTD-MT-23-617-67

On Questions Relating to the Buckling of Struts Under Conditions of Creep, by G. S. Glushkov and N. V. Valishvili, RUSSIAN, per, Raschety na Prochnost, No 9, 1963, pp 270-279.
NLL RTS 2793
(On Loan or Purchase)

Plasma Equilibrium in Closed Toroidal Magnetic Configuration, by V. D. Shafranov, RUSSIAN, rpt, Report IAE-1151, 1966, pp 1-17.
P911106767
AEC-NP-TR-1465

Laser With Adjustable Frequency, by V. L. Broude, RUSSIAN, bk, Respublikanskiy Seminar po Kvantovoy Elektronike. Kvantovaya Elektronika, 1966, pp 123-136.
*FTD-MT-23-614-67

Resonator of a Proton Multiple Acceleration System in the JINR Synchrophasotron, by V. A. Vagin, et al. 13 pp.
RUSSIAN, rpt, Resonator Sistemy Kratnogo Uskoreniya Protonov Sinkhrofasatrone OIYa, 26 Dec 1966.
*AEC

Calculation of Nonstationary Temperature Fields in Structures by the Method of Moments, by B. M. Avkhimovich, RUSSIAN, per, Sbornik Statey Metody Raschetov Temperaturnykh Poley i Teploizolyatsii Litsate'nykh Apparatov, 1966, pp 3-34.
*FTD-MT-23-622-67

Scientific
Physics (Contd)

A Device for Determining the Static Electricity on Films, by L. G. Gross, et al. RUSSIAN, per, Tekhn Kino i Televideniya, Vol X, No 3, 1966, pp 7-12. Chem Trans Sv No 2999

Theory of a Jet Viscous Fluid, by L. A. Vulis, V. P. Kashkarov. RUSSIAN, bk, Teoriya Struy Vyazkoy Zhidkosti, 1965, 429 pp. *FTD HT 23-669-67

An Experimental Investigation of the Specific Heat of a 94% Concentration of Ethyl Alcohol (by Weight) in the Super-Critical Region for the State Variables, by S. L. Rivkin and B. N. Egorov, RUSSIAN, per, Teplenergentika, No 7, 1961, pp 60-67. NLL RTS 3038 (On Loan or Purchase)

Debye Approximation in the Theory of Vibrations of Lattice with Defect Pseudolocal Vibrations, by G. Zavt, RUSSIAN, per, Tr. AN Est. SSR Inst. Fiz. i Astronom., No 27, 1964, pp 69-84. NLL 5828.4F 1966 (11590)

Deceleration of a Relativistic Particle in a Plasma, by A. I. Alekseyev, 24 pp. RUSSIAN, per, Trudy Inst Inzhenerno-Fiz. Primeneniye Metodov Kvantovoy Teorii Polya k Zadacham Mnogikh Tel, 1963, pp 65-82. P100091867 FTD-MT-64-435

Some Characteristics of Distribution of the Coefficient of Turbulence in a Boundary Layer, by P. A. Vorontsov. RUSSIAN, per, Trudy Glavnaya Geofizicheskaya Observatoriya, Leningrad, No 167, 1965, pp 80-97. *FTD MT 66-156

Radiation of a High-Temperature Plasma, by A. I. Alekseyev, 13 pp. RUSSIAN, per, Trudy Inst Inzhenerno-Fiz., 1963, pp 83-93. P100091867 FTD-MT-64-435

Scientific
Physics (Contd)

Investigation of Processes in Heat Exchanges with Moving Beds, by L. S. Pioro, RUSSIAN, per, Tr. Inst. Ispol'zovaniya Gaza v Kommunal'nim Khoz. i Prom. Ak Nauk UkrSSR, Vol V, 1958, pp 88-108. NLL RTS 3118 (On Loan or Purchase)

Investigation of the Oxidative Ammonolysis of Some Monalkylbenzenes, by A. D. Kagarlitskiy, RUSSIAN, per, Trudy Inst. Khim. Nauk Ak Nauk Kazakhskoi SSR, Vol VII, 1961, pp 57-67. NLL RTS 3447 (On Loan or Purchase)

Annual Variation of the Rate of Increase of Ionization of the F2 Region in the First Half of the Day, by Yu. N. Yelizar'yev, 10 pp. RUSSIAN, per, Trudy Inst Sibirskiy Fiziko-Tekh, No 41, 1962, pp 49-54. P100092267 FTD-MT-65-292

Measurement of Visibility Range at Night, by M. A. Gol'berg. RUSSIAN, per, Trudy Mezhdunarod Soveshch po Aktinometrii i Optike Atmosfery, 1963, pp 206-209. *FTD-MT-23-588-67

Problem of the Movement of the Interface During Two-Phase Flow, by V. N. Donetskii RUSSIAN, per, Tr. Mosk. Inst. Neftekhim. i Gaz. Prom., No 29, 1960, pp 63-69. ATS RJ-4497

Investigation of the Interfacial Tension of Crude Oils at the Gas-Phase Boundary as a Function of Pressure and Temperature, by M. M. Kusakov, et al, RUSSIAN, per, Tr. Mosk. Neft. Inst., No 14, 1955, pp 115-134. ATS RJ-4515

The Stress State of a Viscoelastic Nonuniformly Heated Cylinder With a Star-Shaped Cavity, by V. G. Savchenko. RUSSIAN, per, Trudy Nauchnoye Soveshch po Teplovym Napryazheniyam v Elementakh Konstruktsiy, No 6, 1966, pp 137-146. *FTD-MT-23-591-67

Scientific
Physics (Contd)

Some Electrical Properties of Thin Films of the System Ga-Te, by V. I. Gramatskiy. RUSSIAN, per, Uchenyye Zapiski, Vol CXIX, 1964, pp 38-40.
*FTD-HT-23-634-67

Formation of Magnetic-Field Pulses with Short-Duration Fronts in Inflector-Type and Deflector-Type Devices, by I. O. Grishayev, et al, RUSSIAN, per, Ukrainskiy Fizichniy Zhurnal, Vol VIII, No 8, 1963, pp 861-868.
NLL RTS 2825
(On Loan or Purchase)

Roto-Conductivity Infrared Quechies in Mercury Sulfide Crystals with Cu and Ag Impurities, by V. E. Lashkar, V. V. Ribalka, RUSSIAN, per, Ukrains'kiy Fizichniy Zhurnal, Vol XI, 1966, pp 372-381.
*NASA TT F-10,920

Sound Velocity and Evaporation Heat of a Liquid, by M. F. Otpushchennikov, V. V. Zotov. RUSSIAN, per, Ukr.-Fiz Zhur, Vol 11, No 5, 1966, pp 558-560.
Chem Trans Sv 3021

Theory of Excitons in Crystals, by G. Khaken, RUSSIAN, per, Uspekhi Fiz. Nauk, Vol LXVIII, 1959, pp 565-619.
NLL RTS 3385
(On Loan or Purchase)

Induction Effects in Gravitational and Possible Gravimagnetic Interaction, by L. I. Slabskiy. RUSSIAN, per, Vestn Mosk Univ Ser Fiz Astron, Vol XXI, No 4, 1966, pp 47-51.
NASA TT F-10,628

High Frequency Properties of Plasma by K. D. Sinel'nikov. RUSSIAN, bk, Vysokochastotnyye Svoystva Plazmy, 1965.
NASA TT F-449

Use of the Nuclear Magnetic Resonance Method for Studying the Structure of an Electrolyte in Ion Exchange Resins, by P. M. Borodin, M. K. Nikitin, et al. RUSSIAN, per, Yadernyy Magnitnyy Rezonans, Leningrad Universitet, No 1, 1965, pp 83-89.
*FTD HT 23-678-67

Scientific
Physics (Contd)

Nuclear Magnetic Relaxation in Diamagnetic Electrolyte Solutions, by V. I. Chizhik, M. K. Khripun. RUSSIAN, per, Yadernyy Magnitnyy Rezonans, Leningrad, Universitet, No 1, 1965, pp 96-99.
*FTD HT 23-678-67

Nuclear Resonance Generator With Dynamic Polarization of Nuclei in the Magnetic Field of the Earth by A. A. Morozov. RUSSIAN, per, Yadernyy Magnitnyy Rezonans, No 1, 1965, pp 138-143.
*FTD HT 23-678-67

Plasma-Wave Propagation Across a Magnetic Field by A. B. Kitsenko. RUSSIAN, per, Yadernyy Sintez, No 4, 1964, pp 272-278.
*FTD HT 23-671-67

Many Body Problem and Plasma Physics, by V. L. Bonch-Bruyevich. (editor). RUSSIAN, bk, Zadacha mnogikh tel i Fizika Plasmy, Nauka Press 1967.
Plenum Publishing Co. Ltd.

Mechanism of Dissociation of Metal Phthalocyanines, by B. D. Berezin, RUSSIAN, per, Zhurnal Fiz. Khim., Vol XXXVIII, No 4, 1964, pp 850-857.
ATS RJ-4659

Over-Voltage at a Mercury Cathode in Concentrated Solutions, by Z. A. Iofa and A. N. Frumkin, RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol XVIII, No 7-8, 1944, pp 268-282.
NLL RTS 3065
(On Loan or Purchase)

Mechanism of Formation of the Photoelectret State in Single Crystals of Certain Silver and Alkali Metal Halides, by V. V. Pospelov and V. M. Fridkin, RUSSIAN, per, Zhurnal Nauchn. i Prikl. Fotogr. i Kinematogr., Vol X, No 2, 1965, pp 118-123.
ATS RJ-4637

The Flow of Some Layers of Viscous Liquid on the Inclined Extruder Plate of the Casting Machine, by A. I. Babchin, et al. RUSSIAN, per, Zh. Nauchn i Priklad Fotogr Kinematogr, Vol X, No 5, 1965, pp 344-347.
Chem Trans Sv No 3136

Scientific
Physics (Contd)

Electron Recombination in a Plasma Expanding in a Vacuum, by N. M. Kuznetsov, Yu. P. Raizer, 18 pp.
RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiz, No 4, 1965, pp 10-20. P100102067
FTD-HT-66-455

Luminous Zone Propagation at an Electric Explosion in Heavy Wires, by V. M. Kulgavchuk, 7 pp.
RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiz, No 4, 1965, pp 165-168. P100102067
FTD-HT-66-455

A High-Current Argon Laser, by V. I. Donin.
RUSSIAN, per, Zhur Prikl Spektroskopii, Vol V, No 3, 1966, pp 388-390.
*FTD-HT-23-625-67

Pulsed Argon Laser at High-Density Currents and Low Pressures, by S. G. Kulagin.
RUSSIAN, per, Zhur Prikl Spektroskopii, Vol V, No 4, 1966, pp 534-535.
*FTD-HT-67-448

Crystal and Molecular Structure of Hexanitrobenzene, by Z. A. Akopyan and Yu. T. Struchkov,
RUSSIAN, per, Zh. Strukt. Khim., Vol VII, 1966, pp 408-416. P911099667
AEC-LA-TR-66-88

Stability and the Critical Speed Region for Rapidly Rotating Rotors with Friction, by P. L. Kapitza,
RUSSIAN, per, Zhurnal Tekh. Fiz., Vol IX, No 2, 1939, pp 124-147.
NLL 9022.09 (4179)

On the Plasma Excitation by Means of a Circuited Hall's Currents by Z. Zharinov.
RUSSIAN, per, Zhur Tekh i Fiz Vol XXXVII, No 2, 1967, pp 294-299.
*NASA TT F 10,875

Measurement of Hall's Current in a Homopolar, by E. N. Brobyshevskii.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXXVII, No 2, 1967, pp 322-326.
*NASA TT F-10,874

Heat Barrier, by Yeh Wei.
CHINESE, per, Huang K'ung Chih Shih, Vol II, No 3, 1966, pp 8-10.
*FTD-HT-23-590-67

Scientific
Physics (Contd)

The Intensity of the Absorption Bands of Ruby, by Huang Hsi-yi, 23 pp.
CHINESE, per, Wu Li Hsueh Pao, Vol XX, No 3, 1964, pp 241-251. P100103467
FTD-HT-66-498

Microwave Ultrasonics, by Tu Lien-yao, 34 pp.
CHINESE, per, Wu Li T'ung Pao, No 9, 1964, pp 385-396. P100089667
FTD-TT-65-2012

Problems of Interference in Neutron Activation Analysis, by Miloslav Rakovic.
CZECH, per, Chemicke Listy, Vol LIX, No 9, 1965, pp 1038-1046.
*FTD-HT-23-637-66

The Determination of Oxygen Dissolved by the Winkler Method, A Statistical Evaluation of the Different Sources of Error, by Henri Rotschi,
FRENCH, per, Cahiers Oceanographiques, Vol XV, No 7, 1963, pp 470-479.
*Dept of Navy/NRL

Solution of Some Problems of Multiple Scattering by the Monte-Carlo Method, by Jean-Claude Bluet,
FRENCH, rpt, CEA-R-2971. P911101067
AEC-ORNL-TR-1546

Process for Continuous Scouring of Sheet Metal by Means of Supersonic Waves.
FRENCH, Patent 1,408,338, July 5, 1965.
Chem Trans Sv No 2651

Instrumental in Graphite Reactors, by A. Teste du Bailler and B. Pierre,
FRENCH, rpt, Seminar on Physics Measurements in Power Reactors Rome 9-13 May, 1966.
*AEC-Windscale-Trans-273

Enrichment of ¹²C and ¹³C by Gas-Phase Chromatography of CO on Molecular Sieves, by G. Blanc, 54 pp.
FRENCH, rpt, S.N.P.A., Physical Chemistry Laboratories. P911102367
AEC ORNL-Tr-1435

Scientific
Physics (Contd)

Pot Vitrification Study of the Flow of Glass,
by A. Magne, 26 pp.
FRENCH, rpt, Vitrification en Pot Etude de
la Coulee de Verre, rpt SCCI-61. P911102567
AEC ORNL-Tr-1445

Operation of Electrostatic Separators in the
P. S. During 1964, by P. Coet. 20 pp.
GERMAN, mono, 1965.
AEC NP-tr-1311

Single Crystal Growth of High-Melting Point
Materials With the Aid of Microwave Plasma
Torches, by G. Seifert, R. Kappelt, 23 pp.
GERMAN, per, Experimentelle Technik der
Physik, Vol 31, No 2, 1965, pp 124-140.
P911103167
AEC SC-T-67-0904

Activity Losses in Handling Aqueous Solutions of
 ^{131}I , by F. Moldenhawer, et al.
GERMAN, per, Isotopenpraxis, Vol 2, 1966,
pp 333-338.
*AEC ORNL-tr-1660

The Production of Spherical Particles from
Uranium Nitride in the Fluidised Bed Build-
up Process, by D. Naumann and W. Heyne,
GERMAN, per, Kernenergie, Vol IX, No 2, 1966,
pp 50-54. P911106567
AEC-NP-TR-1488

Contribution to the Analysis and to the
Synthesis of Linear Exactly Decoupled
Multiple Regulating Loops, by J. Sponer.
GERMAN, per, Nessen, Steuern, Regeln,
No 6, 1965, pp 187-194.
*FTD-IT-23-641-67

On the State of Solution of Hydrogen in Palladium
and Hydrogenation Catalysis, by J. Franck. 6 pp.
GERMAN, per, Nachr. Ges. Wiss. Goettingen, Math-
Physik. Kl., 1933, pp 293-296.
AEC ORNL-tr-623

The Effects of a Resonance on a Direct Process,
by A. Pfitzner, C. Riedel. 14 pp.
GERMAN, per, Nuclear Physics, Vol 60, 1964,
pp 672-685.
AEC AEIR-tr-1025

Scientific
Physics (Contd)

Fluctuations of the Cross Sections of the
Reactions $^{25}\text{Mg}(p,p)^{25}\text{Mg}$ and $^{24}\text{Mg}(d,p)^{25}\text{Mg}$,
by A. Gallmann, P. Wagner and P. E. Hodgson,
21 pp.
GERMAN, per, Nuclear Physics, Vol 88, 1966,
pp 675-688. P911102067
AEC LA-Tr-67-2

Spontaneous Recombination of Frenkel Pairs, by
K. Dettmann. 17 pp.
GERMAN, per, Phys. Status Solidi, Vol 10, 1965,
pp 269-282.
AEC ANL-tr-240

The Temperature Dependence of Dielectric Polari-
zation in Some Benzene Derivatives, by
Egon Bretscher. 20 pp.
GERMAN, per, Physik. Z. Vol 32, 1931, pp 765-773.
AEC SC-T-65-721

Application of a New Method for the Calculation
of Force Constants, by Wolfgang Sawodny and
Alois Fadini, et al.
GERMAN, per, Spectrochimica Acta, Vol XXI,
1965, pp 995-1006. P911107867
AEC-ORNL-TR-1507

The Toxicity of Some Halogen Hydrocarbons
Which are Under Consideration as Fire Ex-
tinguishing Agents, by Eberhard Gross,
GERMAN, per, VfB Zeitschrift Forschung und
Technik, Vol XV, No 4, 1966, pp 130-135.
Dept of Navy/NRL Tr No 1101

A Small Electrostatic Generator With
Large Charge Carrier Agent, by
Alexander Papkow.
GERMAN, per, Z. Angew. Physik, Vol XV,
No 2, 1963, pp 170-171.
Chem Trans Sv No 3120

A Helix Linear Accelerator for Electrons as a
Model for a Proton Accelerator, by Horst Klein.
23 pp.
GERMAN, per, Zeit. Angew. Phys., Vol 18, 1964,
pp 143-149.
AECL-2287

Investigation of Atomic Vacancies in Cu, Ag, and
Au by Means of Electric Resistance, by W. Schule.
GERMAN, per, Zeit. Naturforsch., Vol 16a, 1961,
pp 323-325.
*AEC

Scientific
Physics (Contd)

Measurement of the Pressure Increase in a Hydrogen Arc Discharge With Superimposed Axial Magnetic Field, by H. F. Doebele, R. Wienecke, S. Witkowski, 15 pp. GERMAN, per, Zeit Naturforschung, Vol 21a, 1966, pp 390-398. P911102467
AEC ORNL-Tr-1440

Tables for Dimensioning Shells of Revolution, by K. Szmodits, HUNGARIAN, per, Kozlemenyei, Vol XXXV, No1-4, 1965, pp 319-334.
ACSI J-1215
ID 2204055566

Reactions Occuring at the Interface, by M. M. Pavlyuchenko. HUNGARIAN, per, Magyar Tudomanyos Akademia Kozponti Fizikai Kutato Intezet Kozlemenyei, Vol 7, 1959, pp 86-93.
AEC UCRL-tr-1263

Calculation of the Transition Probability at the Nth State of Markov Chain, by Vittorio Amato. ITALIAN, per, Statistica, Vol 22, 1962, pp 3-27.
*AEC ORNL-tr-1661

The Accidental Printing Effect in Magnetic Tape of the Cobalt Substituted Gamma Ferric Oxide Powder, by Hayama Himitada and Totokubo Itiro. JAPANESE, per, Danki-Kagaku, No 2, 1965, pp 34-43.
*Dept of Navy/NRL

Study of the Heat Transfer of Packed Beds Accompanying Endothermic Reactions, by S. Sugiyama and T. Baba, JAPANESE, per, Kagaku Kogyosha, Vol XXVIII, No 11, 1964, pp 940-945.
NLL 9022.091 (CRL/T.2509)

Fundamental Studies on the Ion Exchange Separation of Isotopes. VIII. Continuous Enrichment of Lithium Isotopes by a Simultaneous Use of Ion Exchange and Electromigration, by Kakihana, Hidetake, Nori, Yoshihiro. 12 pp. JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 6, 1964, pp 65-71.
AEC NSJ-tr-26

Scientific
Physics (Contd)

Transient Heat Transfer in the Heterogeneous Water Reactor. Part II, by Hayashi, Shigenori, Sakurai, Akira. 16 pp. JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 6, 1964, pp 399-405.
AEC ANL-tr-237

Measurements of Dose Buildup Factors in Slab Materials for ⁶⁰Co Isotropic Sources, by Yoshihiko Kanemori, JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol VIII, 1966, pp 304-308.
*AEC-ORNL-TR-1649

Backscattering of Gamma Rays, by Tomonori HYODO. JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 8, 1966, pp 371-381.
*AEC ORNL-tr-1670

Radiolysis of Cobalt (III) Ethylenediamine-Traacetate in Aqueous Solution, by Matsuura, Niro, Shinohara, Nobuyoshi, et al. 25 pp. JAPANESE, per, Nippon Kagaku Zasshi, Vol 84, 1963 pp 897-902.
AEC UCRL-tr-1241

Variations in Boiling Heat Transfer Due to the Generation of Bubbles, by K. Torikai and T. Yamazaki, JAPANESE, per, Nihon Kikai Gakkai Rombun-shu, Vol XXXI, No 223, pp 450-457.
NLL 9190.9 F (Risley Trans 987)

Stress in Vacuum-Evaporated Films, by H. Kondo, K. Kunoshita. 13 pp. JAPANESE, per, Oyo Butsuri, Vol 28, No 9, 1959, pp 553-560.
AEC SC-T-65-741

A Study on the Methods for Analyzing Multi-layered Gamma-ray Shields, by Iwao KATAOKA. JAPANESE, rpt, Report of Ship Research Institute, Vol 3, No 4, 1966, pp 161-332.
*AEC ORNL-tr-1671

Studies on the Photosensitivity of Lead Halide Emulsions, by W. Wojciak and J. Michejda, POLISH, per, Poznan, Towarz. Pracyciol. Nauk Wydzial. Nat. Prozyrid. Prace Komis. Nat. Prayrod., Vol VII, NA 9, 1959, pp 79-96.
ATS PJ-4664

Scientific
Physics (Contd)

A Problem of Flow Through a Fractured Porous Medium, by T. Oroveanu,
RUMANIAN, per, Acad. Rep. Populare Romine, Studii Cercetari de Mecan. Alp., Vol XII, No 2, 1961, pp 633-640.
ATS RU-4484

Calculation of the Net of Pendulum Stations in the Rumanian Peoples' Republic, by M. Socolescu, D. Bisir.
RUMANIAN, per Revue de Physique, Vol II, No 1, 1957, pp 117-132,
*ACIC TC-1213

Compressible Plane Jet Bounded by Thin Jet Sheets, by C. S. Ioan, 17 pp.
RUMANIAN, per, Studii si Cercetari de Mecanica Aplicata, Vol XIV, No 6, 1963, pp 1449-1463. P100089767
FTD-TT-65-718

Characterization and Physical Concentration of Spanish Uraniferous Quartzites, by F. de Lora, 17 pp.
SPANISH, rpt, Estudios de Caracterizacion y Concentracion Fisica de Cuarzitas Uraniferas Espanolas, Vienna, Jun 27-Jul 1, 1966.
P911103367
AEC Tr-6844

Slag Attack of Basic Refractories, by Mikael Brunner,
SWEDISH, per, Jernkontorets Annaler, Vol CXLVIII, No 7, 1964, pp 470-517. P944098167
METIC Tr No 1758

Instrument for Determination of Magnetic Field Strength and Direction, by S. von Friesen, 9 pp.
SWEDISH, Patent, No 110,226.
Dept of Comm
Patent Office

On the Mechanism of the Nonequilibrium Effect of Depletion of Silicon by Majority Carriers, by V. E. Primachenko, O. V. Snitko, 13 pp.
UKRAINIAN, per, Ukrayins'kyy Fiz Zhur, Vol X, No 4, 1965, pp 389-397. P100090467
FTD-HT-66-176

Scientific
Propulsion & Fuels

Hydraulic Resistance of a Tangential Combustion Chamber and the Gas Collector of a Gas-Turbine Engine with a Radial Turbine, by A. S. Shteynberg,
RUSSIAN, per, Avtomobil'naya Promy, Vol XXXII, 1966, pp 6-10.
*ACSI J-2284
ID 2204016567

Conditions for Using Liquid Fuel Containing Vanadium in Gas Turbine Engines, by E. A. Kovalev,
RUSSIAN, per, Bor'ba Korrozii Dvigateli Vnutr. Agor. Igazaturb. Ustan., 1962, pp 190-201.
NLL 9022.09B 1966 (3880)

Instability and Related Macroscopic Effects in Toroidal Discharges, by B. B. Kadomtsev and O. P. Pogutse,
RUSSIAN, rpt, 1965 Culham Conference Paper CN-21/127, pp 1-17.
NLL 9091.9F 1966 (CFO/230)

Calculating the Stress Condition of the Framework for Spherical Valves for High-Head Gas, by A. U. Bugov,
RUSSIAN, per, Energomashinostroenie, No 5, 1962, pp 17-20.
*CFSTI TT 67-59020

Methods of Logically Developing Multiple-Zone Gas Fields, by I. S. Teplitskiy,
RUSSIAN, per, Gaz. Prom., Vol IX, No 5, 1964, pp 9-11.
ATS RJ-4510

Simultaneous Separate Production of Gas, Oil and Water from Gas-Cap Oil Reservoirs with Bottom Water, by A. P. Telkov,
RUSSIAN, per, Gaz. Prom., Vol IX, No 6, 1964, pp 10-14.
ATS RJ-4509

Primary Migration of Oil, by A. N. Snarskiy,
RUSSIAN, per, Geol. Nefti i Gaza, Vol VI, No 11, 1962, pp 52-54.
ATS RJ-4518

Scientific
Propulsion & Fuels (Contd)

Permeability Distribution in the Principal Productive Horizons of Ural-Volga Oilfields, by A. V. Belov, RUSSIAN, per, Geol. Nefti i Gaza, Vol VII, No 12, 1963, pp 18-22.
ATS RJ-4481

A Fuel Consumption Regulator for a Turbojet Engine, by V. Ye. Martynov, RUSSIAN, per, Izobreteniya Promyshlennost Obratzny Tovarneye Znaki, No 4, 1966, 2 pp.
ACSI J-1834
ID 2204009867

Calculation of Working Process in a Cooled Gas Turbine, by G. S. Saprykin. RUSSIAN, per, Iz Vysch Ucheb Zaved, Energetika, No 6, 1966, pp 53-62.
*FTD-MT-67-63

Calculation of the Transition Section of a Turbulent Jet, by A. S. Ginevskiy. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh Zhid i Gaza, No 3, 1966, pp 59-67.
*FTD-MT-23-632-67

Some Theoretical Problems in the Operation of Oil Wells, by M. V. Meyerov and E. S. Salimzhanov, RUSSIAN, per, Izv. Ak Nauk SSSR, Otdel. Tekhn. Nauk, Tekhn. Kibernetika, No 3, 1963, pp 81-93.
ATS RJ-4512

Some Formulas for Calculating the Temperature Field of a Formation During Thermal Injection, by N. A. Avdonin, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 3, 1964, pp 37-41.
ATS RJ-4474

Experimental Study of Oil Recovery and Phase Permeabilities in the Displacement of Oil by Water From a Porous Medium, by I. B. Burtsev, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 4, 1964, pp 47-50.
ATS RJ-4483

The Mechanism and Effectiveness of the Action of Surface-Active Agents in the Displacement of Oil From Porous Media, by V. A. Nikolayev and Sh. K. Gimadudinov, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 6, 1964, pp 39-43.
ATS RJ-4479

Scientific
Propulsion & Fuels (Contd)

Interpretation of the Results of Studies of Inhomogeneous Formations, by I. F. Rakhimkulov, RUSSIAN, per, Izv. VUZ Neft i Gaz, Vol VII, No 8, 1964, pp 31-37.
ATS RJ-4486

Various Methods for Calculating the Temperature Distribution in a Formation During Thermal Injection, by N. A. Avdonin, RUSSIAN, per, Izv. VUZ, Neft i Gaz, Vol VII, No 8, 1964, pp 39-46.
ATS RJ-4473

An Investigation of the Kinetics of Catalytic Processes, by V. I. Atroshchenko, RUSSIAN, per, Kataliz i Katalizatory AN Ukr. SSR, 1965, pp 57-64.
NLL 5823.4F (11679)

Thermal Petroleum Recovery Methods in Czechoslovakia, by J. Juranek, RUSSIAN, per, Neft. Khoz., Vol XLI, No 7, 1963, pp 69-70.
ATS RJ-4470

Investigation of the Effect of Superheated Steam on Oil Recovery, by A. A. Abbasov, et al, RUSSIAN, per, Neft. Khoz., Vol XLII, No 5, 1964, pp 44-49.
ATS RJ-4468

The Anisotropic Textures of Polyethylene Terephthalate Film, by L. G. Kazaryan and D. A. Tsvankin, RUSSIAN, per, Vysok. Soed., Vol VII, No 1, 1965, pp 80-86.
NLL 9022.84B 1966 (1300)

External Combustion Engine, by G. Smirnov, RUSSIAN, per, Za Rulem, Oct 1966, pp 8-9, 11.
ACSI J-1696
ID 2204004467

Excitation of Strong Collisionless Shock Waves in a Plasma, by R. Kh. Kurtnullayev, et al, RUSSIAN, per, Zhurnal Prikl. Mekh. i Tekh. Fiz., No 2, 1965, pp 79-83.
NLL 9091.9F 1966 (CTO/260)

Scientific
Propulsion & Fuels (Contd)

Concerning the Influence of Plasma Resonance on the Expansion of Surface Waves in a Non-uniform Plasma, by K. N. Stepanov, RUSSIAN, per, Zh. Tekh. Fiz., Vol XXXV, No 6, 1965, pp 1002-1011.
NLL 3774.5B 1966 (1316)

Method of Vulcanization of Olefins, by A. S. Novikov, et al, RUSSIAN, Patent No 162,960.
NLL 9022.84B 1966 (1260)

Exhaust-Gas Neutralizer for Internal-Combustion Engines, by M. Sh. Tuskerman, RUSSIAN, Patent No 179,125, 1966.
ACSI J-1654
ID 2204003467

Conditions for Optimum Economic Operation in the Working Range of the Pump, by O. Strycek, CZECH, per, Strojirenstvi, Vol XVI, No 1, 1966, pp 22-29.
NLL 6075.461 (1820)

The Use of Auxiliary Fuels in the Blast Furnace, by P. Dancoisne, J. Michard. FRENCH, Paper D.1 Presented at the International Congress in Charleroi on Cokes in the Iron and Steel Industry, 19-22 Sep 1966.
*BISI 5481

Fuel for Fuel Cells, by H. Bode, GERMAN, per, Chem-Ingenieur-Technik, Vol XXXV, No 5, 1963, pp 367-371, 376.
ACSI J-1870
ID 2204010567

Gas Turbines and Exhaust Gas Turbo-Supercharges at the 1966 Hannover Fair and German Air Show, by H. J. Schwechheimer, GERMAN, per, Motortechnische Zeitschrift, No 9, 1966, pp 379-384.
ACSI J-1760
ID 2204006567

New Combustion Process for Vehicle Diesel Engines, by F. Fischinger, GERMAN, per, Motortechnische Zeitschrift, No 10, 1966, pp 389-395.
ACSI J-1758
ID 2204006367

Scientific
Propulsion & Fuels (Contd)

Internal Combustion Engines at the Leipzig Spring Fair 1966, by E. Aster, GERMAN, per, Motortechnische Zeitschrift, Vol XXVII, No 10, 1966, pp 421-422.
ACSI J-1751
ID 2204006267

The Partial-Load Behavior of a Small Double-Shaft Gas Turbine with Regenerative Heat Exchanger, by O. Iten and A. Roeder, GERMAN, per, Motortechnische Zeitschrift, No 10, 1966, pp 423-427.
ACSI J-1756
ID 2204006167

Ablative-Cooling Technique for Rocket Engines, by Heinz Meier zu Kocker, GERMAN, per, Zeitschrift fuer Flugwissenschaften, No 10, 1966, pp 440-450.
*NASA TT F-10,912

Investigation of the Effect of Vulcanisation Accelerators, by L. Horvath, HUNGARIAN, per, Koloriszt. Ert., Vol VI, No 4, 1964, pp 248-263.
NLL 9022.84B 1966 (1291)

Defussion in Multi-component Gas Mixtures, by Bird, JAPANESE, per, Kagaku Kagaku, Vol XXVI, 1962, pp 718-721.
*NASA TT F-10,925

Space Technology

What Should the Cosmonauts Breathe? by V Stantso, 4 pp. RUSSIAN, per, Khimiya i shin', Vol II, No. 12, Dec 1966, pp. 7-9.
JPRS 39740

Physiology of Work in Space, by L. S. Khachaturskyants, 9 pp. RUSSIAN, per, Meditsinskaya Gistria, No. 1, Jan 1967, pp. 30-37
JPRS 40399

Scientific
Space Technology (Contd)

The Effect of Tangential Acceleration on the Motion of a Satellite, by Yu. G. Yevtushenko.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika, No 3, 1966, pp 594-598.
*ACIC TC-1220

Physiological Measurements during Space Travel, by R. M. Bayevskiy, 9 pp.
RUSSIAN, per, Priroda, No. 1, Jan 1967, pp. 68-72.
JPRS 40381

Problems of Space Biology, by N. M. Sisakyan.
RUSSIAN, bk, Problemy Kosmicheskoy Biologii, Vol V, 1967, 218 pp.
*NASA TT-F-492

A Brief Discussion of Powerplants for Spaceflight, by Chien Shin-I, 13 pp.
CHINESE, per, Kang K'ung Chih Shih, No 7, 1964, pp 6-8. P100089467
FTD-TT-65-693

The French Satellite Before the Start, by Etienne Antherieu, 11 pp.
CZECH, per, Radar, No 1, January pp 1-3; 29-33.
DIA IN 88-67

Miscellaneous

Review of Academy of Sciences Kazakh SSSR Activities during 1966, 8 pp.
RUSSIAN, np, Kazakhstanskaya pravda, 28 Feb 1967, p. 3.
JPRS 40424

Basic Trends in Contemporary Soviet Science Discussed by Academician Ya. V. Feyve, 7 pp.
RUSSIAN, per, Sovetskaya Latviya, 27 Dec 1966, p. 2.
JPRS 40427

Annual Meeting of Latvian Academy of Sciences Reviews Work Done in 1966, 6 pp.
RUSSIAN, per, Sovetskaya Latviya, 28 Feb 1967, pp. 1 & 3.
JPRS 40424

Scientific
Miscellaneous (Contd)

History and Achievements of the Bulgarian Academy of Sciences, 5 pp.
BULGARIAN, np, Rabotnichesko delo, 6 Feb 1967, p. 2.
JPRS 40181

Index to Patent Classification of the German Federal Republic,
GERMAN, bk, Stichwörter-Verzeichnis, Alphabetische Zusammenstellung Technischer Gegenstände mit Angabe der Dazugehörigen Patentklassen, Gruppen und Untergruppen, 1951, 405 pp.
CFSTI TT 65-50147

Government Council Directive of the Directions and Tasks of the Scientific and Technological Research Work during 1966-67, 6 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Oct 1966, pp. 1-4.
JPRS 40295

Review of Scientific and Technological Work in 1965 and the New Directions and Tasks for 1966-67, 21 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Oct 1966, pp. 5-13.
JPRS 40295

Scientific Activities in North Vietnam, 14 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Oct 1966, pp. 47-53.
JPRS 40295

Scientific Activities of North Vietnam, 18 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, No. 12, pp. 39-46, 33.
JPRS 40231

....

INFORMATION RECEIVED DURING APRIL

ON COVER-TO-COVER TRANSLATIONS

Acta Biochimica Polonica, Vol VI, No 1-4, 1959.
CFSTI TT-60-21558/1-4.

Acta Biochimica Polonica, Vol XIII, No 4, 1966.
CFSTI-TT-66-57010/4.

Acta Physiologica Polonica, Vol XVII, No 2, 1966.
CFSTI-TT-66-57009/2

Acta Polonae Pharmaceutica, Vol XXIII, No 4,
1966.
CFSTI-TT-66-57004/4.

Arhiv Bioloskih Nauka, Vol XVII, No 3, 1965.
CFSTI-TT-65-50409/3.

Arhiv Bioloskih Nauka, Vol XVII, No 4, 1965.
CFSTI-TT-65-50409/4

Avtomatika i Telemekhanika, Vol XXVII, No 10,
Oct 1966.
Inst Soc of Amer.

Biokhimiya, Vol XXXI, No 1, Jan-Feb 1966.
CB.

Biokhimiya, Vol XXXI, No 2, Jan-Feb 1966.
CB.

Biokhimiya, Vol XXXI, No 3, Mar-Apr 1966.
CB.

Biokhimiya, Vol XXXI, No 4, Mar-Apr 1966.
CB.

Biokhimiya, Vol XXXI, No 5, May-June 1966.
CB.

Differentsial'nye Uravneniya, Vol I, No 1,
Jan. 1965.
Paraday Press, Inc.

Doklady Akademii Nauk SSSR Earth Science Section,
Vol CLXX, No 1-6, July-Aug 1966.
Amer Geolo Inst.

Doklady Akademii Nauk USSR Earth Science Section,
Vol CLXX, Sept -Oct 1966.
Amer Geolo Inst.
Vol CLXX, No 1-6, Apr 1967.

Doklady Akademii Nauk SSSR Physical Chemistry,
Vol CLXVI, No 1-6, Jan-Feb 1966.
CB.

Doklady Akademii Nauk SSSR Physical Chemistry,
Vol CLXVII, No 2, Mar-Apr 1966.
CB.

Doklady Akademii Nauk SSSR Physical Chemistry,
Vol CLXVIII, No 1-6, May-June 1966.
CB.

Doklady Akademii Nauk SSSR Physics Section,
Vol CLXX, No 1-3, Sept 1966.
Amer Inst Physics
Vol XI, No 9, Mar 67.

Elektrokhimiya, Vol II, No 1, Jan 1966.
CB.

Elektrokhimiya, Vol II, No 2, Feb 1966.
CB.

Elektrokhimiya, Vol II, No 3, March 1966.
CB.

Elektrokhimiya, Vol II, No 4, Apr 1966.
CB.

Fizika Goreniya i Vsryva, Vol I, No 1, Jan-Mar,
1965.
Paraday Press, Inc.

Fiziko Khimicheskaya Mekhanika Materialov, Vol I,
No 1, Jan-Feb 1965.
Paraday Press, Inc.

Fiziologiya Rastenii, Vol XIII, No 1, Jan-Feb .
1966.
CB.

Fiziologiya Rastenii, Vol XIII, No 2, Mar-Apr.
1966.
CB.

Fiziologiya Rastenii, Vol XIII, No 3, May-June, 1966.
CB.

Geokhimiya, Vol 3, No 1, 1966.
Geochemical Society.

Geologiya Nefti i Gaza, Vol VI, No 10, 1962.
Petroleum Geology.

Geomagnetizm i Aeronomy, Vol VI, No 3, 1966.
Amer Geoph Union.

Geomagnetizm i Aeronomiya, Vol VI, No 4, 1966.
Amer Geoph Union.

Hoc Tap, No 3, 1967.
JPRS 40,856.

Izvestiya Akademii Nauk USSR Atmosfere i
Okeanologicheskii, Vol II, No 10, Oct 1966.
Amer Geop Union

Izvestiya Akademii Nauk USSR Atmosfere i
Okeanologicheskii, Vol II, No 11, Nov 1966.
Amer Geoph Union.

Izvestiya Akademii Nauk USSR Fizika Zemli,
No 10, Oct 1966.
Amer Geop Union.

Izvestiya Akademii Nauk USSR Fizika Zemli,
No 11, Nov 1966.
Amer Geoph Union.

Izvestiya Akademii Nauk SSSR Otn Tekhnicheskaya
Kibernetika, No 1, 1967.
JPRS 40,629.

Izvestiya Akademii Nauk SSSR Seriya Fizicheskaya,
Vol XIX, No 4, 1966.
Columbia Technical Translations

Izvestiya Akademii Nauk SSSR Seriya Fizicheskaya,
Vol XIX, No 5, 1966.
Col Tech Trans.

Izvestiya Akademii Nauk SSSR Seriya
Khimicheskaya, No 5, May 1966.
CB.

Khimiya Geterotsiklicheskikh Soedinenii,
Vol I, No 1, Jan-Feb 1965.
Faraday Press, Inc.

Khimiya Prirodnikh Soedinenii, Vol I, No 1,
Jan-Feb 1965.
Faraday Press, Inc.

Kinetika i Kataliz, Vol VII, No 3, May-June 1966.
CB.

Kristallografiya, Vol XI, No 5, Sept-Oct 1966.
Amer Inst Physics
Vol XI, No 5, Mar-Apr 1967.

Lijecnicki Vjesnik, Vol LXXXVIII, No 4, 1966.
CFSTI-TT-66-59006/4

Lijecnicki Vjesnik, Vol LXXXVIII, No 5, 1966.
CFSTI-TT-66-59006/5.

Magnitnaya Gidrodinamika, Vol I, No 1, Jan-Mar,
1965.
Faraday Press, Inc.

Mekhanika Polimerov, Vol I, No 1, Jan-Feb.
1965.
Faraday Press, Inc.

Polski Przegląd Radiologii i Medycyny
Nuklearnej, Vol XXX, No 4, 1966.
CFSTI-TT-66-57002/4.

Problemy Peredachi Informatsii, Vol 2, No 4, 1966.
JPRS 40,820.

Sovetskoye Zdravookhraneniye, No 3, 1967.
JPRS 40,647.

Sovetskoye Zdravookhraneniye, No 4, 1967.
JPRS 40,850.

Tekhnika i Vooruzheniye, No 1, 1967.
ACSI J-1863.

Tekhnika i Vooruzheniye, No 3, 1967.
*ACSI J-2335.

Tsvetnye Metally, Vol XXXVIII, No 11, 1965
Primary Sources
Vol VI, No 11, 1965.

Tyl i Snabzheniye Sovetskikh Vooruzhennykh,
No 2, 1967.
ACSI J-1972.

Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki, Vol LI, No3, Sept 1966.
Amer Inst Physics
Vol XXIV, No 3, Mar 67

Tyl i Snabzheniye Sovetskikh Vooruzhennykh,
No 3, 1967.
*ACSI J-2247.

Zhurnal Prikladnoi Khimii, Vol XXXIX, No 6,
June 1966.
CB.

Uspekhi Fizicheskikh Nauk, Vol LXXXVIII, No 1-2,
Jan-Feb 1966.
Amer Inst Physics.
Vol IX, No 1, July-Aug, 1966.

Zhurnal Prikladnoi Spektroskopii, Vol II, No 1,
Jan 1965.
Faraday Press, Inc.

Uspekhi Fizicheskikh Nauk, Vol LXXXVIII, No 3-4,
Mar-Apr 1966.
Amer Inst Physics.
Vol IX, No 2, Sept-Oct 1966.

Zhurnal Tekhnicheskoi Fiziki, Vol XXXVI, No 9,
Sept 1966.
Amer Inst Physics
Vol XI, No 9, Mar 67.

Uspekhi Fizicheskikh Nauk, Vol LXXXIX, No 1-2,
May-June 1966.
Amer Inst Physics
Vol IX, No 3, Nov-Dec 1966.

Zhurnal Tekhnicheskoi Fiziki, Vol XXXVI, No 10,
Oct 1966.
Amer Inst Physics
Vol XI, No 10, Apr 1967.

Vestnik Akademii Nauk SSSR, Vol XXXVII, No 2,
1967.
JPRS 40,727.

Vestnik Akademii Meditsinskikh Nauk SSSR,
No 3, March 1967.
JPRS 40,619.

Vestnik Protivovozdushnoy Oborony, No 2, 1967.
ACSI J-2043.

Vestnik Protivovozdushnoy Oborony, No 3, 1967.
*ACSI J-2246.

Voyenno-Meditsinskiy Zhurnal, No 12, 1966.
ACSI J-1642.

Voyenno Meditsinskiy Zhurnal, No 1, 1967.
ACSI J-1862.

Voyenno Meditsinskiy Zhurnal, No 3, 1967
*ACSI J-2334.

Zavodskaya Laboratoriya, Vol XXXII, No 9,
Sept 1966.
Inst Soc Amer.

ACTA BIOCHIMICA POLONICA
Vol VI, No 1-4, 1959

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- USSR -
No. 3, 1967

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RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR.....	Academy of Sciences, USSR.
BSSR.....	Belorusskaya Soviet Socialist Republic.
CC CPSU.....	Central Committee, Communist Party, Soviet Union.
Gintsvetmet.....	State Institute of Non-Ferrous Metals.
Giprosvetmet.....	State Institute for the Design and Planning of Non-Ferrous Metals Industry Establishments.
Giredmet.....	State Rare Metals Scientific Research Institute.
Gorkom.....	City Committee.
Gosplan.....	State Planning Committee of the Council of Ministers of the USSR.
GOST.....	All-Union Standard.
IL.....	Foreign Literature Publishing House.
Kaz SSR.....	Kazakh SSR.
L-M.....	Leningrad-Moscow.
LPI.....	Leningrad Polytechnical Institute.
Mashgis.....	State Scientific and Technical Publishing House of Literature on Machinery.
Metallurgisdat.....	State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy.
NTD.....	Scientific and Technical Division.
OTN.....	Department of Technical Sciences.
Sovmarkhoz.....	Council of the National Economy.
UKStak.....	Ust'-Kamenogorsk Lead-Zinc Combine.
VUZ.....	Institute of Higher Education.

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VESTNIK OF THE USSR ACADEMY OF MEDICAL SCIENCES

No 3, March 1967

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Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in cursive script, reading "Sergio N. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

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ENCLOSURE I



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed
by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	Fldr	Doc	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0482732	78-03109A	56	1	5	100	Consolidated Translation Survey For April 1966	4/1/1966	203	Approved For Release	3/25/2004
AD0485874	78-03109A	56	1	6	101	Consolidated Translation Survey For May 1966	5/1/1966	250	Approved For Release	3/25/2004
AD0486759	78-03109A	56	1	7	102	Consolidated Translation Survey For June 1966	6/1/1966	265	Approved For Release	3/25/2004
AD0488131	78-03109A	56	1	8	103	Consolidated Translation Survey For July 1966	7/1/1966	178	Approved For Release	3/25/2004
AD0800235	78-03109A	57	1	1	104	Consolidated Translation Survey For August 1966	8/1/1966	264	Approved For Release	3/25/2004
AD0801439	78-03109A	57	1	2	105	Consolidated Translation Survey For September 1966	9/1/1966	211	Approved For Release	3/25/2004
AD0803607	78-03109A	57	1	3	106	Consolidated Translation Survey For October 1966	10/1/1966	247	Approved For Release	3/25/2004
AD0804982	78-03109A	57	1	4	107	Consolidated Translation Survey For November 1966	11/1/1966	203	Approved For Release	3/25/2004
AD0806465	78-03109A	57	1	5	108	Consolidated Translation Survey For December 1966	12/1/1966	234	Approved For Release	3/25/2004
AD0808740	78-03109A	57	1	6	109	Consolidated Translation Survey For January 1967	1/1/1967	277	Approved For Release	3/25/2004
AD0811456	78-03109A	57	1	7	110	Consolidated Translation Survey For February 1967	2/1/1967	234	Approved For Release	3/25/2004
AD0813563	78-03109A	57	1	8	111	Consolidated Translation Survey For March 1967	3/1/1967	342	Approved For Release	3/25/2004
AD0814969	78-03109A	57	1	9	112	Consolidated Translation Survey For April 1967	4/1/1967	268	Approved For Release	3/25/2004
AD0816126	78-03109A	58	1	1	113	Consolidated Translation Survey Through 31 May 1967	5/31/1967	210	Approved For Release	3/25/2004
AD0818406	78-03109A	58	1	2	114	Consolidated Translation Survey Through 30 June 1967	6/30/1967	271	Approved For Release	3/25/2004
AD0834366	78-03109A	58	1	3	115	Consolidated Translation Survey Through 31 July 1967	7/31/1967	318	Approved For Release	3/25/2004
AD0820905	78-03109A	58	1	4	116	Consolidated Translation Survey Through 31 August 1967	8/31/1967	308	Approved For Release	3/25/2004
AD0822924	78-03109A	58	1	5	117	Consolidated Translation Survey Through 30 September 1967	9/30/1967	330	Approved For Release	3/25/2004
AD0824515	78-03109A	58	1	6	118	Consolidated Translation Survey Through 31 October 1967	10/31/1967	200	Approved For Release	3/25/2004
AD0824581	78-03109A	58	1	7	119	Consolidated Translation Survey Through 30 November 1967	11/30/1967	194	Approved For Release	3/25/2004
AD0832430	78-03109A	58	1	8	120	Consolidated Translation Survey Through 31 December 1967	12/31/1967	100	Approved For Release	3/25/2004
AD0828154	78-03109A	58	1	9	121	Consolidated Translation Survey Through 31 January 1968	1/31/1968	221	Approved For Release	3/25/2004
AD0829939	78-03109A	59	1	1	122	Consolidated Translation Survey Through 29 February 1968	2/29/1968	246	Approved For Release	3/25/2004